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120486

From: Vogel, Nancy
Sent: Tuesday, April 27, 2004 1:06 PM
To: STIC-Biotech/ChemLib
Subject: sequence search 10/677,471

Please search SEQ ID NO 83 of 10/677,471 and return results to me on paper asap.

Thanks,

Examiner Nancy Vogel

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Searcher: _____
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Date Completed: _____
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

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OM protein - protein search, using sw model

Run on: April 28, 2004, 12:53:47 ; Search time 59 Seconds
(without alignments)
2054.033 Million cell updates/sec

Title: US-10-677-471-83

Perfect score: 2211

Sequence: 1 MFPGGSGSLTYTLVICFLT.....LRRKRSRLDYLINGIYVDI 431

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_29Jan04:*

1: Geneseqp1980s:*
2: Geneseqp1990s:*
3: Geneseqp2000s:*
4: Geneseqp2001s:*
5: Geneseqp2002s:*
6: Geneseqp2003as:*
7: Geneseqp2003bs:*
8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2211	100.0	431	2	AAV17834 Human PRO
2	2211	100.0	431	3	AAV17834 Human PRO
3	2211	100.0	431	3	AAV17834 Human PRO
4	2211	100.0	431	3	AAV17834 Human PRO
5	2211	100.0	431	4	AAV17834 Human PRO
6	2211	100.0	431	4	AAV17834 Human PRO
7	2211	100.0	431	6	AAV17834 Human PRO
8	2211	100.0	431	6	AAV17834 Human PRO
9	2211	100.0	431	6	AAV17834 Human PRO
10	2211	100.0	431	6	AAV17834 Human PRO
11	2211	100.0	431	6	AAV17834 Human PRO
12	2211	100.0	431	6	AAV17834 Human PRO
13	2211	100.0	431	6	AAV17834 Human PRO
14	2211	100.0	431	6	AAV17834 Human PRO
15	2211	100.0	431	6	AAV17834 Human PRO
16	2211	100.0	431	6	AAV17834 Human PRO
17	2211	100.0	431	6	AAV17834 Human PRO
18	2211	100.0	431	6	AAV17834 Human PRO
19	2211	100.0	431	6	AAV17834 Human PRO
20	2211	100.0	431	6	AAV17834 Human PRO
21	2211	100.0	431	6	AAV17834 Human PRO
22	2211	100.0	431	6	AAV17834 Human PRO
23	2211	100.0	431	6	AAV17834 Human PRO
24	2211	100.0	431	6	AAV17834 Human PRO
25	2211	100.0	431	6	AAV17834 Human PRO

26	2211	100.0	431	6	ABU10960 Human PRO
27	2211	100.0	431	6	ABU11316 Human PRO
28	2211	100.0	431	6	ABU17135 Human PRO
29	2211	100.0	431	6	ABU81712 Novel hum
30	2211	100.0	431	6	ABU8651 Human sec
31	2211	100.0	431	6	ABU34165 Human PRO
32	2211	100.0	431	6	ADA38026 Human sec
33	2211	100.0	431	6	ADA21712 Human sec
34	2211	100.0	431	6	ADA10499 Human sec
35	2211	100.0	431	6	ADA18043 Human PRO
36	2211	100.0	431	6	ADA28151 Human sec
37	2211	100.0	431	6	ADA94731 Human sec
38	2211	100.0	431	6	ADA38956 Human sec
39	2211	100.0	431	6	ADA93077 Human sec
40	2211	100.0	431	7	ADA53251 Human sec
41	2211	100.0	431	7	ADA22638 Human sec
42	2211	100.0	431	7	ADA22621 Human sec
43	2211	100.0	431	7	ADA06804 Human sec
44	2211	100.0	431	7	ADA39497 Human sec
45	2211	100.0	431	7	ADB96523 Human PRO

ALIGNMENTS

RESULT 1	
AAV17834	AAV17834 standard; protein, 431 AA.
XX	
AC	AAV17834;
XX	
DT	12-AUG-1999 (first entry)
XX	
DE	Human PRO361 protein sequence.
XX	
KW	Human; PRO protein; tumor necrosis factor family; TNF; cytokine;
KW	secreted protein; transmembrane protein; inflammation disorder.
OS	Homo sapiens.
XX	
PN	WO9928462-A2.
XX	
PD	10-JUN-1999.
XX	
PF	01-DEC-1998; 98WO-US025108.
XX	
PR	03-DEC-1997; 97US-0067411P.
PR	11-DEC-1997; 97US-0069278P.
PR	11-DEC-1997; 97US-0069334P.
PR	11-DEC-1997; 97US-0069335P.
PR	12-DEC-1997; 97US-0069425P.
PR	16-DEC-1997; 97US-0069694P.
PR	16-DEC-1997; 97US-0069696P.
PR	16-DEC-1997; 97US-0069702P.
PR	17-DEC-1997; 97US-0069870P.
PR	17-DEC-1997; 97US-0069873P.
PR	18-DEC-1997; 97US-0068017P.
PR	05-JAN-1998; 98US-0070440P.
PR	09-FEB-1998; 98US-0074086P.
PR	09-FEB-1998; 98US-0074092P.
PR	25-FEB-1998; 98US-0075945P.
XX	
PA	(GENTECH) GENENTECH INC.
XX	
PI	Wood WT, Goddard A, Gurney AL, Yuan J, Baker KP, Chen J;
XX	
DR	WPI, 1999-371118/31.
XX	
DR	N-PSDB; AAX80059.
XX	
FT	Nucleic acids encoding PRO secreted and transmembrane proteins.
XX	
PS	Claim 12; Fig 37; 123pp; English.
XX	

The present invention describes nucleic acids encoding PRO secreted and transmembrane proteins used therapeutically. The PRO proteins have cytosolic, anti-inflammatory, anti-proliferative and immunosuppressive activity. The proteins and polynucleotides can be used in therapy, CC identification of homologues, raising antibodies and design of probes and primers. They can be used in a range of diseases related to proteins that they have homology with, e.g. a PRO protein having homology to complement proteins may be used in inflammatory responses

SQ Sequence 431 AA;

Query Match	100.0%	Score 2211	DB 2	Length 431
Best Local Similarity	100.0%	Pred. No. 3.6e-173		
Matches 431; Conservative	0	Mismatches	0	Gaps 0

Qy	I	MPFGGSGSLTYLVLIICFLTLRLSASONCLKSLSEVVIDIDQSLSKGIRGNEPVYTSTQ	60
Dp	1	MFEGGSGSLTYLVLIICFLTLRLSASONCLKSLSEVVIDIDQSLSKGIRGNEPVYTSTQ	60
Qy	61	EDCINSCCSTKNIISGDKACNLMIIPDRKTAARQNCVLCFCQPNBEACPPLPKAKLMSYRII	120
Dp	61	EDCINSCCSTKNIISGDKACNLMIIPDRKTAARQNCVLCFCQPNBEACPPLPKAKLMSYRII	120
Qy	121	TDFPSLTLRNLPSQQLPEQEDSLHLHGQFSQAVTPPLAHHRTDYSKPTDIISWRDTLSQKFGSSD	180
Dp	121	TDFPSLTLRNLPSQQLPEQEDSLHLHGQFSQAVTPPLAHHRTDYSKPTDIISWRDTLSQKFGSSD	180
Qy	181	HLEKFLPKMDEASAOILAAVKEKGHSOSSQSSDOEIHLLPENVSALPATVAVASPHTTSA	240
Dp	181	HLEKFLPKMDEASAOILAAVKEKGHSOSSQSSDOEIHLLPENVSALPATVAVASPHTTSA	240
Qy	241	TPKPAATLLPTNNAVTPPSGTSQPOLATTAPPVTVTSIQPPTTLISVTFTRAAATLQAMATT	300
Dp	241	TPKPAATLLPTNNAVTPPSGTSQPOLATTAPPVTVTSIQPPTTLISVTFTRAAATLQAMATT	300
Qy	301	AVLTTTTFQAPPTDSKGSLETIIPFEIISNLLNTGNSVYNPPTALSNVSNBSSTMNKTASWEGR	360
Dp	301	AVLTTTTFQAPPTDSKGSLETIIPFEIISNLLNTGNSVYNPPTALSNVSNBSSTMNKTASWEGR	360
Qy	361	EASPSGSSSGQSPENQYGLPFKEKMLLIGSLFGVLFLAVLGLVLLGRIILSESLRRKXYSRL	420
Dp	361	EASPSGSSSGQSPENQYGLPFKEKMLLIGSLFGVLFLAVLGLVLLGRIILSESLRRKXYSRL	420
Qy	421	DYLINGIYVDI 431	
Dp	421	DYLINGIYVDI 431	

RESULT 2
AAB33428
ID AAB33428 standard; protein; 431 AA.
XX
XX AAB33428;
XX
DT 29-JAN-2001 (first entry)
XX
DE Human PRO361 protein UNQ316 SEQ ID NO:72.
XX
KM Human; immune related disease; diagnosis; antiinflammatory; cardiant;
KM dermatological; antichrhtic; antithematic; immunosuppressive;
KM haemostatic; antithroid; antidiabetic; nootropic; neuroprotective;
KM antinaemic; hepatotropic; virucide; antipneumatic; antiallergic;
KM antiaethmatic; systemic lupus erythematousus; Rheumatoid arthritis;
KM osteoarthritis; spondyloarthropathy; systemic sclerosis; sarcoidosis;
KM idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
KM systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus
KM autoimmune thrombocytopaenia; immune-mediated renal disease;
KM demyelinating disease; hepatobiliary disease; Whipple's disease;
KM inflammatory bowel disease; gluten-sensitive enteropathy;
KM autoimmune disease; immune-mediated skin disease; allergic disease;
KM immunological disease; transplantation associated disease;
KM graft rejection; graft-versus-host-disease.

OS	Homo sapiens.
XX	
PN	WO200053758-A2.
XX	
PD	14-SEP-2000.
XX	
PF	02-MAR-2000; 2000MO-US005841.
XX	
PR	08-MAR-1999; 99MO-US005028.
PR	10-MAR-1999; 99US-0123618P.
PR	12-MAR-1999; 99US-0123957P.
PR	23-MAR-1999; 99US-0125775P.
PR	12-APR-1999; 99US-0128849P.
PR	20-APR-1999; 99MO-US008615.
PR	28-APR-1999; 99US-0131445P.
PR	04-MAY-1999; 99US-0132371P.
PR	14-MAY-1999; 99US-0134287P.
PR	02-JUN-1999; 99MO-US012552.
PR	23-JUN-1999; 99US-0141037P.
PR	20-JUL-1999; 99US-0144758P.
PR	26-JUL-1999; 99US-0145698P.
PR	28-JUL-1999; 99US-0146222P.
PR	01-SEP-1999; 99MO-US020111.
PR	08-SEP-1999; 99MO-US020594.
PR	13-SEP-1999; 99MO-US020944.
PR	15-SEP-1999; 99MO-US021090.
PR	15-SEP-1999; 99MO-US021547.
PR	05-OCT-1999; 99MO-US023089.
PR	29-OCT-1999; 99US-0162506P.
PR	29-NOV-1999; 99MO-US028214.
PR	30-NOV-1999; 99MO-US028313.
PR	30-NOV-1999; 99MO-US028409.
PR	01-DEC-1999; 99MO-US028301.
PR	01-DEC-1999; 99MO-US028634.
PR	02-DEC-1999; 99MO-US028551.
PR	02-DEC-1999; 99MO-US028564.
PR	02-DEC-1999; 99MO-US028565.
PR	16-DEC-1999; 99MO-US030095.
PR	20-DEC-1999; 99MO-US030099.
PR	30-DEC-1999; 99MO-US031274.
PR	05-JAN-2000; 2000MO-US000219.
PR	06-JAN-2000; 2000MO-US000277.
PR	06-JAN-2000; 2000MO-US000376.
PR	11-FEB-2000; 2000MO-US000365.
PR	18-FEB-2000; 2000MO-US0004341.
PR	18-FEB-2000; 2000MO-US0004342.
PR	22-FEB-2000; 2000MO-US0004414.
XX	
PA	(GETH) GENENTECH INC.
XX	
PI	Asphenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
PI	Karakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V,
PI	Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M,
XX	
DR	WI; 2000-572271/53.
XX	
XX	N-PSDB; AAC58593.
PT	
PT	Sixty four PRO polypeptides, useful in the diagnosis and treatment of
XX	immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
XX	arthritis, osteoarthritis, thyroiditis and diabetes mellitus.
XX	
PS	Claim 33; Fig 30; 309pp; English.
XX	
CC	The present invention describes sixty four human PRO proteins which can
CC	be used in the treatment of immune related diseases. The human PRO
CC	proteins, anti-PRO antibodies, agonists and antagonists are useful for
CC	treating and diagnosing immune related disorders. The disorders are
CC	selected from systemic lupus erythematosus, rheumatoid arthritis,
CC	osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
CC	systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
CC	syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC	anemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
CC	immune-mediated renal disease, demyelinating diseases of the central and
CC	peripheral nervous system.

peripheral nervous systems, hepatobiliary diseases, inflammatory bowel disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune or immune-mediated skin diseases, allergic diseases, immunological diseases of the lung, and transplantation associated diseases including graft rejection and graft-versus-host-disease. AAC58357 to AAC58578 represent PCR primers and hybridization probes used in the isolation of human PRO sequences. AAC58579 to AAC58642 and AAB3414 to AAB33477 represent human PRO polynucleotide and protein sequences given in the exemplification of the present invention

XX Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 3; Length 431;

Best Local Similarity 100.0%; Pred. No. 3.6e-173; Mismatches 0; Indels 0; Gaps 0;

Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGEGSLITLVIIICFTLRSLASQNCCKSLSDVDVIDIOSSLSKGRGNEPYTSTQ 60
 DB 1 MFFGEGSLITLVIIICFTLRSLASQNCCKSLSDVDVIDIOSSLSKGRGNEPYTSTQ 60

QY 61 EDCINSCSTKNISGDKACNLMIFDRTKARQPCYLFCEPNEACPLKPAKGLMSYRII 120
 DB 61 EDCINSCSTKNISGDKACNLMIFDRTKARQPCYLFCEPNEACPLKPAKGLMSYRII 120

QY 121 TDFPSLITRNLPQSELPOEDSLHGFQSAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180
 DB 121 TDFPSLITRNLPQSELPOEDSLHGFQSAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180

QY 181 HLEKLFKMDASAOQLLAYKEKHSQSQSSDOEIAHLHPENVSAIPATVAASPHTTSA 240
 DB 181 HLEKLFKMDASAOQLLAYKEKHSQSQSSDOEIAHLHPENVSAIPATVAASPHTTSA 240

QY 241 TPKEPTLPTNLSVPSGTSQPLATTPATVTVTSQPTTISYFTAAATLQAMAT 300
 DB 241 TPKEPTLPTNLSVPSGTSQPLATTPATVTVTSQPTTISYFTAAATLQAMAT 300

QY 301 AVLTTTFOAPTDSKSLFTIPTETISNLTNGVYNPALSMNSVESSTMNKTASMEGR 360
 DB 301 AVLTTTFOAPTDSKSLFTIPTETISNLTNGVYNPALSMNSVESSTMNKTASMEGR 360

QY 361 EASPSGSSGVSVENQYGLPFKKWLLIGSLFGLVFLVIGLVLAGRIISLRRKYSRL 420
 DB 361 EASPSGSSGVSVENQYGLPFKKWLLIGSLFGLVFLVIGLVLAGRIISLRRKYSRL 420

QY 421 DYLINGIYVDI 431
 DB 421 DYLINGIYVDI 431

RESULT 3
 ID AAB01325 standard; protein; 431 AA.
 AC AAB01325;
 XX
 XX 25-SEP-2000 (first entry)
 DE Human PRO361 polypeptide.
 XX
 KW PRO; membrane bound protein; secreted protein; PRO357; PRO327; PRO243;
 KW PRO315; PRO324; PRO323; PRO299; PRO233; PRO347; PRO355; PRO353;
 KW PRO361; PRO365; transmembrane polypeptide; antibody; screening;
 KW detection; inhibition; probe; primer; human.
 XX
 XX Homo sapiens.
 OS
 XX
 XX Key Location/Qualifiers
 FH Peptide 1..25
 FT Modified-site /label= Signal peptide
 FT Modified-site 4..10
 FT Modified-site /note= "N-myristoylation site"
 FT Modified-site 48..54
 FT /note= "N-myristoylation site"

FT Modified-site 50..57
 FT /note= "Tyrosine kinase phosphorylation site"
 FT Modified-site 72..76
 FT /note= "N-glycosylation site"
 FT Modified-site 222..226
 FT /note= "N-glycosylation site"
 FT Modified-site 251..255
 FT /note= "N-glycosylation site"
 FT Modified-site 315..321
 FT /note= "N-myristoylation site"
 FT Modified-site 327..331
 FT /note= "N-glycosylation site"
 FT Modified-site 352..356
 FT /note= "N-glycosylation site"
 FT Domain 384..405
 FT /label= Transmembrane domain
 FT Modified-site 415..419
 FT /note= "cAMP- and cGMP-dependent protein kinase phosphorylation site"

XX
 XX MO200032776-A2.
 XX
 XX 08-JUN-2000.
 XX
 XX 01-DEC-1999; 99WO-US028301.
 XX
 XX 01-DEC-1998; 98WO-US025108.
 XX 16-DEC-1998; 98US-0112850P.
 XX 22-DEC-1998; 98US-0113296P.
 XX
 XX (GETH) GENENTECH INC.
 XX
 PI Baker KP, Botstein D, Eaton DL, Ferrara N, Fliyaroff E;
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL;
 PI Hillan KJ, Kljavin J, Napier MA, Roy MA, Tumas D, Wood WI;
 DR WPI: 2000-412324/35.
 DR N-PSDB; AAA49567.
 PT New human nucleic acids encoding secreted and transmembrane polypeptides,
 PT designated as PRO polypeptides, useful as pharmaceutical and diagnostic
 PT agents.
 PS Claim 12; Fig 32; 187pp; English.
 XX
 CC New human nucleic acids encoding secreted and transmembrane polypeptides
 CC which are designated as PRO polypeptides are described The membrane-bound
 CC proteins have various industrial applications, including as
 CC pharmaceutical and diagnostic agents. The membrane-bound proteins can
 CC also be employed for screening of potential peptide or small molecule
 CC inhibitors of the relevant receptor/ligand interaction. Anti-PRO
 CC antibodies are useful for the affinity purification of PRO from
 CC recombinant cell culture or natural sources
 CC
 XX
 XX Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 3; Length 431;
 Best Local Similarity 100.0%; Pred. No. 3.6e-173; Mismatches 0; Indels 0; Gaps 0;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGEGSLITLVIIICFTLRSLASQNCCKSLSDVDVIDIOSSLSKGRGNEPYTSTQ 60
 DB 1 MFFGEGSLITLVIIICFTLRSLASQNCCKSLSDVDVIDIOSSLSKGRGNEPYTSTQ 60

QY 61 EDCINSCSTKNISGDKACNLMIFDRTKARQPCYLFCEPNEACPLKPAKGLMSYRII 120
 DB 61 EDCINSCSTKNISGDKACNLMIFDRTKARQPCYLFCEPNEACPLKPAKGLMSYRII 120

QY 121 TDFPSLITRNLPQSELPOEDSLHGFQSAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180
 DB 121 TDFPSLITRNLPQSELPOEDSLHGFQSAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180

QY 181 HLEKLFKMDASAOQLLAYKEKHSQSQSSDOEIAHLHPENVSAIPATVAASPHTTSA 240

Db 101 HLEKLFKMDKDEASAOQLAYKEKHSQSSQSSDOEIAHLLPENVSALPATVAVASPHTTSA 240
Qy 241 TPKPATLLPTNASVTPSGTSGPOLATTAPPVTVTSQPTTLISTVFTRAAATLOAMATT 300
Db 241 TPKPATLLPTNASVTPSGTSGPOLATTAPPVTVTSQPTTLISTVFTRAAATLOAMATT 300
Qy 301 AVLTTTFOAPTDSKGSLETTIPTEISNLTNTGNYNPTALSMNVESSTNNKTAWSBGR 360
Db 301 AVLTTTFOAPTDSKGSLETTIPTEISNLTNTGNYNPTALSMNVESSTNNKTAWSBGR 360
Qy 361 EASPGSSSQSVPENQYGLPEFKWLLIGSLFGVLFVLVGLGRILISESLRRKRYRSL 420
Db 361 EASPGSSSQSVPENQYGLPEFKWLLIGSLFGVLFVLVGLGRILISESLRRKRYRSL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
RESULT 4
AAB34739 ID AAB34739 standard; protein; 431 AA.
AC AAB34739;
XX
DT 26-JUN-2001 (first entry)
XX
DE Human secreted protein encoded by DNA clone vo27 1.
XX
KW Secreted protein; human; autoimmune disorder; multiple sclerosis; ulcer;
KW systemic lupus erythematosus; rheumatoid arthritis; anaemia; stroke;
KW haematopoiesis regulation; tissue regrowth; wound healing; haemophilia;
KW Alzheimer's disease; Parkinson's disease; Shy-drager syndrome; cancer;
KW contraceptive; infection; growth inhibition; hyperproliferative disorder;
KW psoriasis.
XX
OS Homo sapiens.
XX
PN WO20005375-A1.
XX
PD 21-SEP-2000.
XX
PF 17-MAR-2000; 2000WO-US007285.
XX
PR 17-MAR-1999; 99US-0124808P.
PR 17-MAR-1999; 99US-0124916P.
PR 17-AUG-1999; 99US-0146339P.
PR 01-OCT-1999; 99US-0157247P.
PR 29-NOV-1999; 99US-0167824P.
PR 15-FEB-2000; 2000US-0182711P.
XX
PA (ALPH-) ALPHAGENE INC.
PI Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P,
XX
DR WPI; 2000-638211/61.
DR N-PSDB; AAC59840.
XX
PT Novel proteins and polypeptides useful for the treatment of e.g multiple
PT sclerosis, systemic lupus erythematosus, rheumatoid arthritis, cancer,
PT Alzheimer's disease, Parkinson's disease, stroke, anemia and ulcers.
XX
PS Claim 114; Page 453-455; 493pp; English.
XX
CC This invention relates to 59 human secreted proteins and the nucleotide
CC sequences encoding them. Sequences AAC59788-C59846 and AAB34687-B34745
CC represent the proteins and their encoding nucleotide sequences, and
CC sequences AAB34746-B34771 represent fragments of the proteins. Probes for
CC the DNA sequences are represented by sequences AAC59847-C59956. The
CC proteins exhibit neuroprotective, dermatological, immunosuppressive,
CC antiinflammatory, antinaemic, nootropic, antiparkinsonian,
CC cerebroprotective, haemostatic, vulnery, cytostatic, antipsoriatic,

CC antibacterial, virucide, and fungicide activity. The proteins and
CC nucleotide sequences are useful as nutritional sources or supplements and
CC in research. The proteins are useful for treating immune deficiency and
CC disorders, which may be genetic or resulting from infections, autoimmune
CC disorders such as multiple sclerosis, systemic lupus erythematosus,
CC rheumatoid arthritis, and for treating myeloid or lymphoid cell
CC deficiencies such as anaemias by regulating haematopoiesis. The proteins
CC are also useful in compositions for bone, cartilage, tendon, ligament
CC and/or nerve tissue growth or regeneration, for wound healing, tissue
CC repair and replacement and in the treatment of wounds, incisions and
CC ulcers. Other uses include in the treatment of central and peripheral
CC nervous system and neuropathies such as Alzheimer's and Parkinson's
CC diseases and Shy-Drager syndrome, and mechanical and traumatic disorders,
CC such as spinal cord disorders, head trauma and stroke. The proteins may
CC also be used as a contraceptive, and for treating coagulation disorders
CC such as haemophilias. The protein and nucleotide sequences with cadherin
CC activity are useful for treating cancer. Other uses for the protein
CC include for inhibiting the growth, infection or function of, or killing,
CC infectious agents such as bacteria, virus, fungi and other parasites, for
CC effecting bodily characteristics such as height, weight, hair colour,
CC effecting biorhythms or cardiac cycles or rhythms, effecting metabolism,
CC catabolism, anabolism, processing, utilization, storage or elimination of
CC dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors,
CC effecting behavioural characteristics, providing anaesthetic effects and
CC for treating hyperproliferative disorders such as psoriasis
XX
SQ Sequence 431 AA;
XX
Query Match 100.0%; Score 2211; DB 3; Length 431;
Beet Local Similarity 100.0%; Pred. No. 3.6e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MFPGEGSLTTLTVICLTIRLSAQNCLEKSLLEDVVIDIQSSLSKGRGNEPVYTSTQ 60
Db 1 MFPGEGSLTTLTVICLTIRLSAQNCLEKSLLEDVVIDIQSSLSKGRGNEPVYTSTQ 60
Qy 61 EDCINSCSTKXNIGDKACNIMIFDTRKTAQPNVCYLFECNEBACPLKPAKGLMSYRII 120
Db 61 EDCINSCSTKXNIGDKACNIMIFDTRKTAQPNVCYLFECNEBACPLKPAKGLMSYRII 120
Qy 121 TDFPSLTNPLPSQELPOEDSLHGOFSQAVTPLAHHTDYKSPDILSWRDTLSQKFGSSD 180
Db 121 TDFPSLTNPLPSQELPOEDSLHGOFSQAVTPLAHHTDYKSPDILSWRDTLSQKFGSSD 180
Qy 181 HLEKLFKMDKDEASAOQLAYKEKHSQSSQSSDOEIAHLLPENVSALPATVAVASPHTTSA 240
Db 181 HLEKLFKMDKDEASAOQLAYKEKHSQSSQSSDOEIAHLLPENVSALPATVAVASPHTTSA 240
Qy 241 TPKPATLLPTNASVTPSGTSGPOLATTAPPVTVTSQPTTLISTVFTRAAATLOAMATT 300
Db 241 TPKPATLLPTNASVTPSGTSGPOLATTAPPVTVTSQPTTLISTVFTRAAATLOAMATT 300
Qy 301 AVLTTTFOAPTDSKGSLETTIPTEISNLTNTGNYNPTALSMNVESSTNNKTAWSBGR 360
Db 301 AVLTTTFOAPTDSKGSLETTIPTEISNLTNTGNYNPTALSMNVESSTNNKTAWSBGR 360
Qy 361 EASPGSSSQSVPENQYGLPEFKWLLIGSLFGVLFVLVGLGRILISESLRRKRYRSL 420
Db 361 EASPGSSSQSVPENQYGLPEFKWLLIGSLFGVLFVLVGLGRILISESLRRKRYRSL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
RESULT 5
AAB35464 ID AAB35464 standard; protein; 431 AA.
XX
AC AAB35464;
XX
DT 26-JUN-2001 (first entry)
XX

DE Human protein sequence SEQ ID NO:17950.
XX Human; primer; detection; diagnosis; antisense therapy; gene therapy.
XX Homo sapiens.
XX EP1074617-A2.
XX
XX 07-FEB-2001.
XX
XX 28-JUL-2000; 2000EP-00116126.
XX
XX 29-JUL-1999; 99JP-00248036.
XX 27-AUG-1999; 99JP-00300253.
XX 11-JAN-2000; 2000JP-00118776.
XX 02-MAY-2000; 2000JP-00183767.
XX 09-JUN-2000; 2000JP-00241899.
XX
XX (HELI-) HELIX RES INST.
XX
XX Ota T, Isegai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
XX Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX WPI; 2001-318749/34.
XX
XX Primer sets for synthesizing polynucleotides, particularly the 5602 full-
XX length cDNAs defined in the specification, and for the detection and/or
XX diagnosis of the abnormality of the proteins encoded by the full-length
XX cDNAs.
XX
XX Claim 8; SEQ ID NO 17950; 2537pp + Sequence Listing; English.
XX
XX The present invention describes primer sets for synthesizing 5602 full-
XX length cDNAs defined in the specification. Where a primer set comprises:
XX (a) an oligo-dT primer and an oligonucleotide complementary to the
XX complementary strand of a polynucleotide which comprises one of the 5602
XX nucleotide sequences defined in the specification, where the
XX oligonucleotide comprises at least 15 nucleotides; or (b) a combination
XX of an oligonucleotide comprising a sequence complementary to the
XX complementary strand of a polynucleotide which comprises a 5'-end
XX sequence and an oligonucleotide comprising a sequence complementary to a
XX polynucleotide which comprises a 3'-end sequence, where the
XX oligonucleotide comprises at least 15 nucleotides and the combination of
XX the 5'-end sequence/3'-end sequence is selected from those defined in the
XX specification. The primer sets can be used in antisense therapy and in
XX gene therapy. The primers are useful for synthesizing polynucleotides,
XX particularly full-length cDNAs. The primers are also useful for the
XX detection and/or diagnosis of the abnormality of the proteins encoded by
XX the full-length cDNAs. The primers allow obtaining of the full-length
XX cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
XX AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893
XX represent human amino acid sequences; and AAH13629 to AAH13632 represent
XX oligonucleotides, all of which are used in the exemplification of the
XX present invention
XX
XX Sequence 431 AA:
SQ
Query Match 100.0%; Score 2211; DB 4; Length 431;
Best Local Similarity 100.0%; Pred. No. 3,6e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MFFGGGSLTYTIVIIICPLTLRLSASONCLKKSLLEVDVIDIOSSLKGRGNPPVYTSQ 60
DB 1 MFFGGGSLTYTIVIIICPLTLRLSASONCLKKSLLEVDVIDIOSSLKGRGNPPVYTSQ 60
QY 61 EDCINSCSTKNISGDKACNLMIPTDKTARQPNCYLFFCPNEACPLPKAKGLMSYRII 120
DB 61 EDCINSCSTKNISGDKACNLMIPTDKTARQPNCYLFFCPNEACPLPKAKGLMSYRII 120
QY 121 TDFPSLTRNLPSQELPQEDSLHGFSGOAVTPLAHHHTDYSKPTDISQKRGSSD 180
DB 121 TDFPSLTRNLPSQELPQEDSLHGFSGOAVTPLAHHHTDYSKPTDISQKRGSSD 180

QY 181 HLEKLFKXDEASAOQLLAKYKKGHSQSQSSDDQETIAHLPPENVSALPATVAVASPHTTSA 240
DB 181 HLEKLFKXDEASAOQLLAKYKKGHSQSQSSDDQETIAHLPPENVSALPATVAVASPHTTSA 240
QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPTTWTYSQPTLLISVFPRAAATLOAMATT 300
DB 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPTTWTYSQPTLLISVFPRAAATLOAMATT 300
QY 301 AVLTTPQAPDPDSKGSLETIPTEISNLTNTGNVYNPTALSMNSVESSTNMTKTSMEGR 360
DB 301 AVLTTPQAPDPDSKGSLETIPTEISNLTNTGNVYNPTALSMNSVESSTNMTKTSMEGR 360
QY 361 EASPGSSSGSVPENQYGLPPEKMLLIGSLFGVLFLVIGLVLLGRILLSESLRRRYSRL 420
DB 361 EASPGSSSGSVPENQYGLPPEKMLLIGSLFGVLFLVIGLVLLGRILLSESLRRRYSRL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431
RESULT 6
AAB65299
ID AAB65299 standard; protein; 431 AA.
XX
XX AAB65299;
AC 02-APR-2001 (first entry)
XX
XX DT
XX
XX DE Human PRO361 protein sequence SEQ ID NO:515.
XX
XX KW Human; secreted and transmembrane protein; PRO; cytosstatic; cell death;
XX cancer; chromosomal mapping; gene mapping; tissue typing;
XX diagnostic assay.
XX
XX OS Homo sapiens.
XX
XX OS
XX PN WO200073454-A1.
XX
XX PD 07-DEC-2000.
XX
XX PF 30-MAR-2000; 2000WO-US008439.
XX
XX PR 02-JUN-1999; 99WO-US012252.
XX PR 23-JUN-1999; 99US-0141037P.
XX PR 07-JUL-1999; 99US-0143048P.
XX PR 20-JUL-1999; 99US-0144758P.
XX PR 26-JUL-1999; 99US-0145698P.
XX PR 28-JUL-1999; 99US-0146222P.
XX PR 17-AUG-1999; 99US-0149396P.
XX PR 15-SEP-1999; 99WO-US02109P.
XX PR 15-SEP-1999; 99WO-US021547.
XX PR 08-OCT-1999; 99US-0158663P.
XX PR 30-NOV-1999; 99WO-US028313.
XX PR 01-DEC-1999; 99WO-US028301.
XX PR 16-DEC-1999; 99WO-US030095.
XX PR 20-DEC-1999; 99WO-US003911.
XX PR 05-JAN-2000; 2000WO-US000219.
XX PR 06-JAN-2000; 2000WO-US000376.
XX PR 11-FEB-2000; 2000WO-US003565.
XX PR 18-FEB-2000; 2000WO-US004341.
XX PR 22-FEB-2000; 2000WO-US004414.
XX PR 24-FEB-2000; 2000WO-US004914.
XX PR 02-MAR-2000; 2000WO-US005841.
XX PR 15-MAR-2000; 2000WO-US006884.
XX PR 20-MAR-2000; 2000WO-US007377.
XX
XX (GENTH) GENENTECH INC.
XX
XX ASHENAZI AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferreira N, Fong S, Geber H, Geriltsen ME, Goddard A, Godowski PJ;
XX Grimaldi CJ, Gurney AL, Kijavlin IJ, Napier MA, Pan J, Paoni NF;

PI Roy MA, Stewart TA, Tumas D, Matanabe CK, Williams PM, Wood WI;
 PI Zhang Z;
 XX WPI; 2001-032160/04.
 DR N-PSDB; AAF44268.
 XX PRO polynucleotides used to produce polypeptides used to target bioactive
 PT molecules such as toxins, radiolabels or antibodies, to specific cells,
 PT to cause targeted cell death.
 XX Claim 12; Fig 32a; 935bp; English.
 XX The present invention describes human secreted and transmembrane PRO
 CC proteins. The PRO proteins have cytostatic activity. The PRO proteins can
 CC be used for targeted delivery of bioactive molecules, such as toxins,
 CC radiolabels or antibodies, that cause cell death. PRO nucleotide
 CC sequences, and their fragments, can be used as hybridisation probes, in
 CC chromosomal and gene mapping, and in the generation of anti-sense RNA and
 CC DNA. They may also be used to produce transgenic animals which are used
 CC to develop and screen therapeutically useful reagents. The PRO nucleotide
 CC and protein sequence can be used for tissue typing and in treating
 CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to
 CC AAF44470 represent PCR primers and hybridisation probes used in the
 CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to
 CC AAB65300 represent human PRO polynucleotide and protein sequences given
 CC in the exemplification of the present invention
 XX Sequence 431 AA;
 SQ
 Query Match 100.0%; Score 2211; DB 4; Length 431;
 Best Local Similarity 100.0%; Pred. No. 3,66-173;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MFFGEGSLTYTLVLTICFLTLRLSASQNCCKKSLDVIDIGSSLSKGRNPEVYTSTQ 60
 DB 1 MFFGEGSLTYTLVLTICFLTLRLSASQNCCKKSLDVIDIGSSLSKGRNPEVYTSTQ 60
 QY 61 EDCINSCSTKNISSDKACNLMIFTRKTAARPNCYLFPCNPEKACPLKPAKGLMSYRII 120
 DB 61 EDCINSCSTKNISSDKACNLMIFTRKTAARPNCYLFPCNPEKACPLKPAKGLMSYRII 120
 QY 121 TDFPSLTNLTNLSQELPOEDSLHGFQSOAVTPFLAHHDYSKPTQISMRDTSOKFGSSD 180
 DB 121 TDFPSLTNLTNLSQELPOEDSLHGFQSOAVTPFLAHHDYSKPTQISMRDTSOKFGSSD 180
 QY 181 HLEKLFKXNDASAOGLAYKEKHSQSSQFSSDOETIAHLPEVNSALPATVAVASPHITSA 240
 DB 181 HLEKLFKXNDASAOGLAYKEKHSQSSQFSSDOETIAHLPEVNSALPATVAVASPHITSA 240
 QY 241 TPKPATLTPNASVTTPSGTSQOLATTAPVYTVTSQPTTLISVFRRAATLQAMATT 300
 DB 241 TPKPATLTPNASVTTPSGTSQOLATTAPVYTVTSQPTTLISVFRRAATLQAMATT 300
 QY 301 AVLTTPPAOPTDSKSLPTETISNLTNTNGVYNPTALSMNVESSTMMKTSWEGR 360
 DB 301 AVLTTPPAOPTDSKSLPTETISNLTNTNGVYNPTALSMNVESSTMMKTSWEGR 360
 QY 361 EASPGSSQSVENQYGLPEFKWLLISGLFGLVIGLVTLGRILSESIRRRYSRL 420
 DB 361 EASPGSSQSVENQYGLPEFKWLLISGLFGLVIGLVTLGRILSESIRRRYSRL 420
 QY 421 DYLINGIYVDI 431
 DB 421 DYLINGIYVDI 431

XX Human secreted/transmembrane protein PRO361.
 DE Human; PRO; secreted protein; transmembrane protein; anti-HIV;
 XX cytostatic; antiarteriosclerotic; antiinflammatory; antidiabetic;
 KW cardiatic; AIDS; acquired immunodeficiency syndrome; cancer;
 KW atherosclerosis; inflammatory disease; diabetic complication;
 KW cardiac injury; organ failure.
 XX Homo sapiens.
 OS US2002142959-A1.
 PN 03-OCT-2002.
 PD 31-AUG-2001; 2001US-00944654.
 PF 16-SEP-1998; 98WO-US019330.
 PR 01-DEC-1998; 98WO-US025108.
 XX 22-JUN-1999; 99WO-US012252.
 PR 15-SEP-1999; 99WO-US021090.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028409.
 PR 16-DEC-1999; 99WO-US030095.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 25-MAY-2001; 2001US-00866028.
 XX (GENTH) GENENTECH INC.
 PA Baker KP, Bocstrein D, Baton DL, Ferrara N, Filvaroff E;
 PI Gertleben ME, Goddard A, Godowski PJ, Gimaldi JC, Gurney AL;
 PI Hillan KJ, Kijavlin IV, Napier MA, Roy MA, Tumas D, Wood WI;
 DR WPI; 2003-174141/17.
 XX N-PSDB; ABX75504.
 PT New isolated PRO polypeptide and encoding nucleic acid, useful for the
 PT diagnosis and treatment of disorders associated with the PRO polypeptide,
 PT such as AIDS, cancer, atherosclerosis, inflammatory disease and diabetes.
 XX Claim 12; Fig 32; 178bp; English.
 PS The invention relates to an isolated PRO polypeptide (a secreted or
 CC transmembrane protein) comprising: (a) at least 80% sequence identity or
 CC positives when compared to any of 15 sequences, fully defined in the
 CC specification, lacking or with its associated signal peptide; or (b) at
 CC least 80% sequence identity to a sequence encoded by the full-length
 CC coding sequence of a DNA deposited in the American Type Culture
 CC Collection (ATCC). Also included are: (1) an isolated nucleic acid
 CC comprising: (a) at least 80% sequence identity to a nucleotide sequence
 CC that encodes a PRO protein; (b) at least 80% sequence identity to a
 CC nucleotide sequence or full-length coding sequence with any of 15 fully
 CC defined sequences of 957-1441 base pairs, given in the specification; or
 CC (c) at least 80% sequence identity to a full-length coding sequence of a
 CC DNA deposited under ATCC Accession No. 209526, 209508, 209524, 209528,
 CC 209530, 209523, 209532, 209531, 209529, 209527, 209570, 209618,
 CC 209621 or 209619; (2) a vector comprising the nucleic acid; (3) a host
 CC cell comprising the vector which, when cultured under conditions suitable
 CC for expression of the PRO polypeptide, produces the PRO protein; (4) a
 CC chimeric molecule comprising PRO fused to a heterologous amino acid
 CC sequence; and (5) an anti-PRO antibody. The methods and compositions of
 CC the present invention are useful for the diagnosis and treatment of
 CC disorders associated with the PRO polypeptide, such as AIDS (acquired
 CC immunodeficiency syndrome), cancer, atherosclerosis, inflammatory
 CC disease, diabetic complications, cardiac injury and organ failure. The

CC antibodies can also be used in the different screening, therapeutic and
CC biological assays. The present sequence represents a PRO protein
XX
SQ Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 6; Length 431;
Best Local Similarity 100.0%; Pred. No. 3,6e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MFRGGEGSLTYTLVITCFLLRLSASQNLKSELDVVVIDIOSSLKGRGNEPYTSTQ 60
DB 1 MFRGGEGSLTYTLVITCFLLRLSASQNLKSELDVVVIDIOSSLKGRGNEPYTSTQ 60
QY 61 EDCINSCCTKNISGDKACNLMIPTKTKARQPCYLCFCPNEBACPLKPAKGLMSYRII 120
DB 61 EDCINSCCTKNISGDKACNLMIPTKTKARQPCYLCFCPNEBACPLKPAKGLMSYRII 120
QY 121 TDFPSLTRLNLPQOELPQEDSLHGFQSAVTPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180
DB 121 TDFPSLTRLNLPQOELPQEDSLHGFQSAVTPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180
QY 181 HLEKLPKMDASAOQLAYKEKHSQSSQPSDOELAHLLPENVSALPATVAASPHTTSA 240
DB 181 HLEKLPKMDASAOQLAYKEKHSQSSQPSDOELAHLLPENVSALPATVAASPHTTSA 240
QY 241 TKPKATLPTNASVTPSGTSOPQLATTAPPTVTISQPTTLISYFTRAAATLQAMATT 300
DB 241 TKPKATLPTNASVTPSGTSOPQLATTAPPTVTISQPTTLISYFTRAAATLQAMATT 300
QY 301 AVLTTTFOAPTDKSGSLFTIPTEISNLTANTGVNVPALSMNSVESSTNNKTASWEGR 360
DB 301 AVLTTTFOAPTDKSGSLFTIPTEISNLTANTGVNVPALSMNSVESSTNNKTASWEGR 360
QY 361 EASPGSSSGSGVPENOYGLPFEXMLLIGLLFGVLFVLVGLVGLGISLSESLRRKRYSL 420
DB 361 EASPGSSSGSGVPENOYGLPFEXMLLIGLLFGVLFVLVGLVGLGISLSESLRRKRYSL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431
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RESULT 8
ABUS8114
ID ABUS8114 standard; protein; 431 AA.
XX
AC ABUS8114;
XX
DT 14-APR-2003 (first entry)
XX
DE Human PRO polypeptide #146.
XX
KW Human; PRO; cytosolic; tumour; cancer; breast; lung; stomach; liver;
KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADPBT;
KW antibody-dependent enzyme mediated prodrug therapy.
XX
OS Homo sapiens.
XX
PN US2003027163-A1.
XX
PD 06-FEB-2003.
XX
PF 15-NOV-2001; 2001US-00997666.
XX
XX 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.
PR 20-MAR-1998; 98US-0078910P.
PR 28-APR-1998; 98US-0083322P.

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PR 07-MAY-1998; 98US-0084600P.  
PR 28-MAY-1998; 98US-0087106P.  
PR 02-JUN-1998; 98US-0087607P.  
PR 02-JUN-1998; 98US-0087609P.  
PR 02-JUN-1998; 98US-0087759P.  
PR 03-JUN-1998; 98US-0087827P.  
PR 04-JUN-1998; 98US-0088021P.  
PR 04-JUN-1998; 98US-0088025P.  
PR 04-JUN-1998; 98US-0088026P.  
PR 04-JUN-1998; 98US-0088028P.  
PR 04-JUN-1998; 98US-0088029P.  
PR 04-JUN-1998; 98US-0088030P.  
PR 04-JUN-1998; 98US-0088033P.  
PR 04-JUN-1998; 98US-0088326P.  
PR 05-JUN-1998; 98US-0088167P.  
PR 05-JUN-1998; 98US-0088202P.  
PR 05-JUN-1998; 98US-0088212P.  
PR 05-JUN-1998; 98US-0088217P.  
PR 09-JUN-1998; 98US-0088655P.  
PR 10-JUN-1998; 98US-0088734P.  
PR 10-JUN-1998; 98US-0088738P.  
PR 10-JUN-1998; 98US-0088742P.  
PR 10-JUN-1998; 98US-0088810P.  
PR 10-JUN-1998; 98US-0088824P.  
PR 10-JUN-1998; 98US-0088826P.  
PR 11-JUN-1998; 98US-0088858P.  
PR 11-JUN-1998; 98US-0088861P.  
PR 11-JUN-1998; 98US-0088876P.  
PR 12-JUN-1998; 98US-0089105P.  
PR 16-JUN-1998; 98US-0089440P.  
PR 16-JUN-1998; 98US-0089512P.  
PR 16-JUN-1998; 98US-0089514P.  
PR 17-JUN-1998; 98US-0089532P.  
PR 17-JUN-1998; 98US-0089538P.  
PR 17-JUN-1998; 98US-0089598P.  
PR 17-JUN-1998; 98US-0089599P.  
PR 17-JUN-1998; 98US-0089600P.  
PR 17-JUN-1998; 98US-0089653P.  
PR 18-JUN-1998; 98US-0089801P.  
PR 18-JUN-1998; 98US-0089907P.  
PR 18-JUN-1998; 98US-0089908P.  
PR 19-JUN-1998; 98US-0089947P.  
PR 19-JUN-1998; 98US-0089948P.  
PR 19-JUN-1998; 98US-0089952P.  
PR 22-JUN-1998; 98US-0090246P.  
PR 22-JUN-1998; 98US-0090252P.  
PR 22-JUN-1998; 98US-0090254P.  
PR 23-JUN-1998; 98US-0090349P.  
PR 23-JUN-1998; 98US-0090355P.  
PR 24-JUN-1998; 98US-0090429P.  
PR 24-JUN-1998; 98US-0090431P.  
PR 24-JUN-1998; 98US-0090435P.  
PR 24-JUN-1998; 98US-0090444P.  
PR 24-JUN-1998; 98US-0090445P.  
PR 24-JUN-1998; 98US-0090472P.  
PR 24-JUN-1998; 98US-0090535P.  
PR 24-JUN-1998; 98US-0090540P.  
PR 24-JUN-1998; 98US-0090542P.  
PR 24-JUN-1998; 98US-0090547P.  
PR 25-JUN-1998; 98US-0090676P.  
PR 25-JUN-1998; 98US-0090678P.  
PR 25-JUN-1998; 98US-0090694P.  
PR 25-JUN-1998; 98US-0090694P.  
PR 25-JUN-1998; 98US-0090695P.  
PR 26-JUN-1998; 98US-0090696P.  
PR 26-JUN-1998; 98US-0090862P.  
PR 26-JUN-1998; 98US-0090863P.  
PR 01-JUL-1998; 98US-0091360P.  
PR 01-JUL-1998; 98US-0091544P.  
PR 02-JUL-1998; 98US-0091478P.  
PR 02-JUL-1998; 98US-0091519P.  
PR 02-JUL-1998; 98US-0091626P.  
PR 02-JUL-1998; 98US-0091628P.
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PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093333P.
PR 30-JUL-1998; 98US-0094651P.
PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
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PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 17-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US021141.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US025108.
PR 22-DEC-1998; 98US-0113296P.
PR 05-JAN-1999; 98WO-US000106.
PR 08-MAR-1999; 98WO-US005028.
PR 12-MAR-1999; 98US-0123957P.
PR 02-JUN-1999; 98WO-US012252.
PR 23-JUN-1999; 98US-0141037P.
PR 07-JUL-1999; 98US-0143048P.
PR 20-JUL-1999; 98US-0144758P.
PR 26-JUL-1999; 98US-0144698P.
PR 28-JUL-1999; 98US-0146222P.
PR 17-AUG-1999; 98US-0148366P.
PR 15-SEP-1999; 98WO-US021090.
PR 15-SEP-1999; 98WO-US021547.
PR 08-OCT-1999; 98US-0158663P.
PR 30-NOV-1999; 98WO-US028313.
PR 01-DEC-1999; 98WO-US028301.
PR 01-DEC-1999; 98WO-US028634.

PR 16-DEC-1999; 98WO-US030095.
PR 20-DEC-1999; 98WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-JUN-2000; 2000US-0213637P.
PR 28-JUL-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 07-SEP-2000; 2000US-0230978P.

Query Match 100.0%; Score 2211; DB 6; Length 431;
Beet Local Similarity 100.0%; Pred. No. 3.ee-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFPGEGSLTYTLVILICFLIRLSASONCLKKSLSDVVIDIQSSLSKIRGNEPVYSTQ 60
DB 1 MFPGEGSLTYTLVILICFLIRLSASONCLKKSLSDVVIDIQSSLSKIRGNEPVYSTQ 60
QY 61 EDCINSCSTKNISGDACNMIMFDTRKTAARQPCYLFECNEBACPLKPAKGLMSYRII 120
DB 61 EDCINSCSTKNISGDACNMIMFDTRKTAARQPCYLFECNEBACPLKPAKGLMSYRII 120
QY 121 TDFPSLFRNLDPQSGLPEQDSLLHGFQSOAVTPLAHHTDYSKPTDISMRDTLSQKFGSSD 180
DB 121 TDFPSLFRNLDPQSGLPEQDSLLHGFQSOAVTPLAHHTDYSKPTDISMRDTLSQKFGSSD 180
QY 181 HLEKLFKMDENASQULLAYKEKGHSQSSQSSDSQDIHLLPNNVALPPTVAVASPHRTSA 240
DB 181 HLEKLFKMDENASQULLAYKEKGHSQSSQSSDSQDIHLLPNNVALPPTVAVASPHRTSA 240
QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPVTVTSQPTTLISTVFTRAATIQAMATT 300
DB 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPVTVTSQPTTLISTVFTRAATIQAMATT 300
QY 301 AVLTTTFOAPTDSKGSLETTIPTEISNLTNTGNVNPFTALSMNSVBSSTNNKTASWEGR 360
DB 301 AVLTTTFOAPTDSKGSLETTIPTEISNLTNTGNVNPFTALSMNSVBSSTNNKTASWEGR 360
QY 361 EASPESSSQSGVPENQGLPPEKWLITGSLFGLVFLVIGVLLGRILISELRKKRYRRL 420
DB 361 EASPESSSQSGVPENQGLPPEKWLITGSLFGLVFLVIGVLLGRILISELRKKRYRRL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431
RESULT 9
ID ABUS9192 standard; protein; 431 AA.
AC ABUS9192;
XX 28-APR-2003 (first entry)
DT Novel human secreted or transmembrane protein PRO361.
XX
DE
XX

KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
 KW cardiac insufficiency disorder; cancer; tumour; immune response;
 KW adrenal cortical capillary endothelial growth; c-fos induction;
 KW vascular endothelial growth factor inhibition; VEGF inhibition;
 KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
 KW retinal neurons cell survival; rod photoreceptor cell survival;
 KW retinal disorder; retinitis pigmentosa; kidney disorder;
 KW mammalian kidney mesangial cell proliferation; Berger disease;
 KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
 KW chondrocyte redifferentiation; sports injury; arthritis.
 XX Homo sapiens.
 OS
 XX
 PN US2002132252-A1.
 XX
 PD 19-SEP-2002.
 XX
 PF 14-NOV-2001; 2001US-0090442.
 XX
 PR 16-JUN-1997; 97US-0049787P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US02006S.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083322P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088021P.
 PR 04-JUN-1998; 98US-0088025P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 04-JUN-1998; 98US-0088028P.
 PR 04-JUN-1998; 98US-0088029P.
 PR 04-JUN-1998; 98US-0088030P.
 PR 04-JUN-1998; 98US-0088033P.
 PR 04-JUN-1998; 98US-0088326P.
 PR 05-JUN-1998; 98US-0088167P.
 PR 05-JUN-1998; 98US-0088202P.
 PR 05-JUN-1998; 98US-0088212P.
 PR 05-JUN-1998; 98US-0088217P.
 PR 09-JUN-1998; 98US-0088655P.
 PR 10-JUN-1998; 98US-0088734P.
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 PR 10-JUN-1998; 98US-0088824P.
 PR 10-JUN-1998; 98US-0088826P.
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 PR 11-JUN-1998; 98US-0088861P.
 PR 11-JUN-1998; 98US-0088876P.
 PR 12-JUN-1998; 98US-0089105P.
 PR 16-JUN-1998; 98US-0089440P.
 PR 16-JUN-1998; 98US-0089512P.
 PR 16-JUN-1998; 98US-0089514P.
 PR 17-JUN-1998; 98US-0089532P.
 PR 17-JUN-1998; 98US-0089538P.
 PR 17-JUN-1998; 98US-0089598P.
 PR 17-JUN-1998; 98US-0089599P.
 PR 17-JUN-1998; 98US-0089600P.
 PR 17-JUN-1998; 98US-0089630P.
 PR 18-JUN-1998; 98US-0089801P.
 PR 18-JUN-1998; 98US-0089907P.
 PR 16-SEP-1998; 98WO-US01330.
 PR 17-SEP-1998; 98WO-US01937.
 PR 07-OCT-1998; 98WO-US021141.
 PR 01-DEC-1998; 98WO-US025108.

PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 02-JUN-1999; 99WO-US012252.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 06-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941992.
 XX
 XX (GENENTECH INC.
 XX
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gertlsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tamas D, Watanabe CK, Williams PM, Wood WJ;
 PI Zhang Z;
 XX
 DR WPI: 2003-247083/24.
 DR N-PSDB; ABX80473.
 XX
 PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
 PT are therapeutically useful for enhancing immune response and in cancer
 PT treatments.
 XX
 PS Claim 12; Fig 328; 648bp; English.
 XX
 CC The invention describes an isolated human PRO polypeptide. The PRO
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
 CC in modulating at least one biological activity of a cell expressing a PRO
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
 CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
 CC PRO826, PRO828, PRO1068 or PRO535, PRO826, PRO819, and PRO1126,
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
 CC useful for treating conditions or disorders where angiogenesis would be
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are
 CC useful for treating cancerous tumours. PRO812 inhibits vascular
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
 CC cells and is thus useful for inhibiting endothelial cell growth in
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,

CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of
CC stimulated T-lymphocytes and are therapeutically useful for enhancing
CC immune response. PRO1028, PRO1026, PRO1026 or PRO1132 enhance survival of
CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
CC rod photoreceptor cells) and therefore are useful for treating retinal
CC disorders of injured, e.g. retinitis pigmentosa, AMD. PRO1019, PRO1013
CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,
CC and therefore are useful for treating kidney disorders associated with
CC decreased mesangial cell function such as Berger disease or other
CC nephropathies associated with dermatitis, herpetiformis or Crohn's
CC disease. PRO1010, PRO1044, PRO1132, PRO1192 and PRO1387 induce the
CC proliferation and/or redifferentiation of chondrocytes in culture and are
CC thus useful for treating sports injuries and arthritis. This is the
CC amino acid sequence of a novel human PRO protein
XX
SQ Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 6; Length 431;
Best Local Similarity 100.0%; Pred. No. 3.6e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFGGEGSLTYTLVLCFTLRSLASQNCLEKSLSDVVIDIOSLSKGRNEPVYTSQ 60
DB 1 MFGGEGSLTYTLVLCFTLRSLASQNCLEKSLSDVVIDIOSLSKGRNEPVYTSQ 60
QY 61 EDCINSCSTKNIISGDKACNLMIFDTRKTAQPNVCYLFECPENEACPLKPAKGLMSYRII 120
DB 61 EDCINSCSTKNIISGDKACNLMIFDTRKTAQPNVCYLFECPENEACPLKPAKGLMSYRII 120
QY 121 TDFPSLTNLNLPQELPQEDSLHGGQSAVPTLAHHHDYSKPTDISMDTLISQKFGSSD 180
DB 121 TDFPSLTNLNLPQELPQEDSLHGGQSAVPTLAHHHDYSKPTDISMDTLISQKFGSSD 180
QY 121 TDFPSLTNLNLPQELPQEDSLHGGQSAVPTLAHHHDYSKPTDISMDTLISQKFGSSD 180
DB 121 TDFPSLTNLNLPQELPQEDSLHGGQSAVPTLAHHHDYSKPTDISMDTLISQKFGSSD 180
QY 181 HLEKLPKMDKDEASQALAYKEKSHSOSQSSDOEIAHLPEVNSALPATVAVASHTTSA 240
DB 181 HLEKLPKMDKDEASQALAYKEKSHSOSQSSDOEIAHLPEVNSALPATVAVASHTTSA 240
QY 181 HLEKLPKMDKDEASQALAYKEKSHSOSQSSDOEIAHLPEVNSALPATVAVASHTTSA 240
DB 181 HLEKLPKMDKDEASQALAYKEKSHSOSQSSDOEIAHLPEVNSALPATVAVASHTTSA 240
QY 241 TPKPATLLPTNNAVTPSGTSQPOLATTAPVTVTTSQPTTLISVFTFAAATLQAMATT 300
DB 241 TPKPATLLPTNNAVTPSGTSQPOLATTAPVTVTTSQPTTLISVFTFAAATLQAMATT 300
QY 301 AVLTTTFOAPPTSKSLFTPTTEISNLTNGVYNNPPLASMSVNESSTNMKTASWGR 360
DB 301 AVLTTTFOAPPTSKSLFTPTTEISNLTNGVYNNPPLASMSVNESSTNMKTASWGR 360
QY 361 EASPSQSSQSVENQYGLPFEKMLLIGSLFGLVFLVIGLVLRILSESIRKRYRRL 420
DB 361 EASPSQSSQSVENQYGLPFEKMLLIGSLFGLVFLVIGLVLRILSESIRKRYRRL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431

RESULT 10

ABU82704 ID ABU82704 standard; protein; 431 AA.
XX AC ABU82704;
XX DT 26-JUN-2003 (first entry)
XX DE Human secreted/transmembrane protein PRO361.
XX KM Human; PRO: secreted protein; transmembrane protein;
XX KM cardiac insufficiency disorders; angiogenesis; wound healing;
XX KM cancerous tumour; immune response; retinal disorder; sight loss;
XX KM retinitis pigmentosa; age-related macular degeneration; AMD;
XX KM kidney disorder; Berger disease; nephropathy; dermatitis; herpetiformis;
XX KM Crohn's disease; sports injury; arthritis.
OS Homo sapiens.
XX

PM US2003032023-A1.
PD 13-FEB-2003.
XX 14-NOV-2001; 2001US-00990711.
XX 16-JUN-1997; 97US-0049787P.
XX 17-OCT-1997; 97US-0062250P.
XX 05-NOV-1997; 97WO-US020069.
XX 12-NOV-1997; 97US-0065186P.
XX 13-NOV-1997; 97US-0065311P.
XX 24-NOV-1997; 97US-0066770P.
XX 25-FEB-1998; 98US-0075945P.
XX 20-MAR-1998; 98US-0078910P.
XX 28-APR-1998; 98US-0083322P.
XX 07-MAY-1998; 98US-0084600P.
XX 28-MAY-1998; 98US-0087106P.
XX 02-JUN-1998; 98US-0087607P.
XX 02-JUN-1998; 98US-0087609P.
XX 02-JUN-1998; 98US-0087759P.
XX 03-JUN-1998; 98US-0088021P.
XX 04-JUN-1998; 98US-0088023P.
XX 04-JUN-1998; 98US-0088025P.
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XX 04-JUN-1998; 98US-0088030P.
XX 04-JUN-1998; 98US-0088033P.
XX 04-JUN-1998; 98US-0088326P.
XX 05-JUN-1998; 98US-0088167P.
XX 05-JUN-1998; 98US-0088202P.
XX 05-JUN-1998; 98US-0088212P.
XX 05-JUN-1998; 98US-0088217P.
XX 09-JUN-1998; 98US-0088655P.
XX 10-JUN-1998; 98US-0088734P.
XX 10-JUN-1998; 98US-0088738P.
XX 10-JUN-1998; 98US-0088742P.
XX 10-JUN-1998; 98US-0088810P.
XX 10-JUN-1998; 98US-0088824P.
XX 10-JUN-1998; 98US-0088826P.
XX 11-JUN-1998; 98US-0088858P.
XX 11-JUN-1998; 98US-0088867P.
XX 11-JUN-1998; 98US-0088875P.
XX 12-JUN-1998; 98US-0089105P.
XX 16-JUN-1998; 98US-0089440P.
XX 16-JUN-1998; 98US-0089512P.
XX 16-JUN-1998; 98US-0089514P.
XX 17-JUN-1998; 98US-0089533P.
XX 17-JUN-1998; 98US-0089538P.
XX 17-JUN-1998; 98US-0089598P.
XX 17-JUN-1998; 98US-0089599P.
XX 17-JUN-1998; 98US-0089600P.
XX 17-JUN-1998; 98US-0089653P.
XX 18-JUN-1998; 98US-0089801P.
XX 18-JUN-1998; 98US-0089807P.
XX 18-JUN-1998; 98US-0089908P.
XX 19-JUN-1998; 98US-0089947P.
XX 19-JUN-1998; 98US-0089948P.
XX 19-JUN-1998; 98US-0089952P.
XX 22-JUN-1998; 98US-0090245P.
XX 22-JUN-1998; 98US-0090252P.
XX 22-JUN-1998; 98US-0090254P.
XX 23-JUN-1998; 98US-0090349P.
XX 23-JUN-1998; 98US-0090355P.
XX 24-JUN-1998; 98US-0090429P.
XX 24-JUN-1998; 98US-0090431P.
XX 24-JUN-1998; 98US-0090435P.
XX 24-JUN-1998; 98US-0090444P.
XX 24-JUN-1998; 98US-0090445P.
XX 24-JUN-1998; 98US-0090472P.
XX 24-JUN-1998; 98US-0090535P.
XX 24-JUN-1998; 98US-0090540P.
XX 24-JUN-1998; 98US-0090542P.

RESULT 11
 ABU60623
 ID ABU60623 standard; protein; 431 AA.
 XX
 AC ABU60623;
 XX
 DT 01-MAY-2003 (first entry)
 XX
 DE Human secreted/transmembrane protein, #182.
 DE
 KM Human, PRO; secreted; transmembrane; signal peptide; pharmaceutical;
 KM diagnostic; therapeutic; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN US2002160384-A1.
 PD
 XX 31-OCT-2002.
 PF 14-NOV-2001; 2001US-00992598.
 XX
 PR 16-JUN-1997; 97US-0049787P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US020069.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083322P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087607P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087755P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088021P.
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 PR 09-JUN-1998; 98US-0088655P.
 PR 10-JUN-1998; 98US-0088734P.
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 PR 17-JUN-1998; 98US-0089532P.
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 PR 17-JUN-1998; 98US-0089653P.
 PR 18-JUN-1998; 98US-0089801P.
 PR 18-JUN-1998; 98US-0089907P.
 PR 18-JUN-1998; 98US-0089908P.

PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 01-DEC-1998; 98WO-US025108.
 PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 02-JUN-1999; 99WO-US012252.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023582.
 PR 24-AUG-2000; 2000WO-US023388.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941992.
 XX
 XX (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Borstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gertzen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WT;
 PI Zhang Z;
 XX
 DR WPI; 2003-288106/28.
 DR N-PDB; ABX90451.
 XX
 PT New transmembrane polypeptides and nucleic acids encoding the
 PT polypeptides, useful in gene therapy, in chromosome identification, as
 PT chromosome markers, or in generating probes.
 XX
 PS Claim 12; Fig 328; 650pp; English.
 XX
 CC The invention discloses isolated PRO secreted/transmembrane polypeptides
 CC comprising a sequence without signal peptide and the nucleic acid
 CC encoding them. The polypeptides can be used to raise antibodies that
 CC specifically bind to the PRO polypeptide, for linking a bioactive
 CC molecule to a cell expressing a PRO protein and for modulating at least
 CC one biological activity of a cell. The PRO polypeptides or
 CC polynucleotides are also useful in gene therapy, in chromosome
 CC identification, as chromosome markers, or in generating probes. The PRO
 CC polypeptides are useful as molecular markers for protein electrophoresis,
 CC and the isolated nucleic acids may be used for recombinantly expressing
 CC those markers. The PRO antibodies and nucleic acids may also be used in
 CC tissue typing. Anti-PRO antibodies are useful in diagnostic assays for

CC PRO, and in affinity purification of PRO from recombinant cell culture or
CC natural sources. The sequences presented in ABU60478-ABU60624 are the PRO
CC polynucleotides of the invention. Note: The sequence data for this patent
CC is also available in electronic format from USPTO at
CC seqdata.uspto.gov/Sequence.html
XX

SQ Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 6; Length 431;
Best Local Similarity 100.0%; Pred. No. 3,66-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGGSGSLTYTLVLIICFLTLRLSASQNCCKSLSEVDVIDIOSLSKGRNEPVYTSIQ 60
DB 1 MFFGGSGSLTYTLVLIICFLTLRLSASQNCCKSLSEVDVIDIOSLSKGRNEPVYTSIQ 60
QY 61 EDCINSCGSKNISGDKACNLMIPTDKTAROPNCYLFFCPNEBACPLKPAKGLMSYRII 120
DB 61 EDCINSCGSKNISGDKACNLMIPTDKTAROPNCYLFFCPNEBACPLKPAKGLMSYRII 120
QY 121 TDFPSLTRNLPSQELPQEDSLHGFQSAVTPLAHHTDYSKPTDISWRDTLSQKRGSSD 180
DB 121 TDFPSLTRNLPSQELPQEDSLHGFQSAVTPLAHHTDYSKPTDISWRDTLSQKRGSSD 180
QY 181 HLEKLFKMDASAQQLLAYKEKSHSOSQPSDQEIHAHLLENVSALEPATVAASPHITSA 240
DB 181 HLEKLFKMDASAQQLLAYKEKSHSOSQPSDQEIHAHLLENVSALEPATVAASPHITSA 240
QY 241 TKRPATLLEPTNASVTPSGTSQPOLATTAPVTVTYSQPTTLISTVFTRAAATLQAMATT 300
DB 241 TKRPATLLEPTNASVTPSGTSQPOLATTAPVTVTYSQPTTLISTVFTRAAATLQAMATT 300
QY 301 AVLTTFQAPTSKGSLETFIPTEISNLTLNNGVNPALMSNVESSTMNKTASWEGR 360
DB 301 AVLTTFQAPTSKGSLETFIPTEISNLTLNNGVNPALMSNVESSTMNKTASWEGR 360
QY 361 EASPGSSQGSVPENYGLPFEXKMLIGSLFGVLVGLVGLGRILSESLRRKRYSL 420
DB 361 EASPGSSQGSVPENYGLPFEXKMLIGSLFGVLVGLVGLGRILSESLRRKRYSL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431

RESULT 12
ABU14005
ID ABU14005 standard; protein; 431 AA.
XX
AC ABU14005;
XX
DT 26-FEB-2003 (first entry)
XX
DE Human PRO361 polypeptide.
XX
KW Human; PRO polypeptide; secreted protein; transmembrane protein;
KW genetic disorder; antibacterial; immunosuppressive.
XX
OS Homo sapiens.
XX
PN US2002103125-A1.
XX
PD 01-AUG-2002.
XX
PF 20-NOV-2001; 2001US-00989731.
XX
PR 16-JUN-1997; 97US-0049787P.
PR 17-OCT-1997; 97US-0062250P.
PR 05-NOV-1997; 97WO-US020069.
PR 12-NOV-1997; 97US-0065186P.
PR 13-NOV-1997; 97US-0065311P.
PR 24-NOV-1997; 97US-0066770P.
PR 25-FEB-1998; 98US-0075945P.

PR 20-MAR-1998; 98US-0076910P.
PR 28-APR-1998; 98US-0083322P.
PR 07-MAY-1998; 98US-0084600P.
PR 28-MAY-1998; 98US-0087106P.
PR 02-JUN-1998; 98US-0087607P.
PR 02-JUN-1998; 98US-0087609P.
PR 02-JUN-1998; 98US-0087759P.
PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088025P.
PR 04-JUN-1998; 98US-0088026P.
PR 04-JUN-1998; 98US-0088028P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 04-JUN-1998; 98US-0088033P.
PR 04-JUN-1998; 98US-0088325P.
PR 05-JUN-1998; 98US-0088167P.
PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
PR 09-JUN-1998; 98US-0088655P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 18-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98WO-US019437.
PR 07-OCT-1998; 98WO-US021141.
PR 01-DEC-1998; 98WO-US0251141.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 02-JUN-1999; 99WO-US01252.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 06-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.

PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUN-2000; 2000WO-US020710.
PR 11-AUG-2000; 2000WO-US022031.
PR 23-AUG-2000; 2000WO-US023522.
PR 08-NOV-2000; 2000WO-US02328.
PR 01-DEC-2000; 2000WO-US030952.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
XX (GETH) GENENTECH LTD.
PA
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers J, Eaton DL;
PI Ferrara N, Fong S, Gersher H, Gertlesen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoletti NF;
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
PI Zhang Z;
XX
XX WPI, 2003-102117/09.
DR N-PSDB; ABX64297.
XX
XX Novel secreted and transmembrane polypeptide for modulating biological
PT activity of cell expressing the polypeptide, identifying agonists or
XX antagonists of polypeptide, and as molecular weight markers.
XX
XX Claim 12; Fig 326; 649pp; English.
PS
XX The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides are useful for detecting other PRO polypeptides, for linking
CC bioactive molecules to cells expressing PRO polypeptides, for modulating
CC biological activities of cells expressing PRO polypeptides, and for for
CC identifying agonists or antagonists. The polynucleotide sequences
CC encoding PRO polypeptides are useful as hybridisation probes, in
CC chromosome and gene mapping, in the generation of antisense RNA and DNA,
CC in the preparation of PRO polypeptides, for generating transgenic animals
CC or knockout animals, to construct hybridisation probes for mapping the
CC gene which encodes the PRO polypeptide, and for the genetic analysis of
CC individuals with genetic disorders, in gene therapy, for chromosome
CC identification, as chromosome markers, and for generating probes for PCR,
CC Northern analysis, Southern analysis and Western analysis. ABU1860-
CC ABU14006 represent the human PRO polypeptides of the invention. Note: The
CC sequence data for this patent was obtained in electronic format directly
CC from the USPTO web site at seqdata.uspto.gov/patidentry.html
XX
XX Sequence 431 AA;
SQ
Query Match 100.0%; Score 2211; DB 6; Length 431;
Best Local Similarity 100.0%; Pred. No. 3,66-113;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 241 TPKPATLPTNASVTPSGTSQPOLATTAPVTTVTSQPTTLISTVFRAAATLQAMATT 300
Qy 301 AVLTTFQAPPTDSKSGLETTIFTEISNLTNTGWNVPFALSMSNVESSTANKTASMEGR 360
Db 301 AVLTTFQAPPTDSKSGLETTIFTEISNLTNTGWNVPFALSMSNVESSTANKTASMEGR 360
Qy 361 EASPGSSQSVPEVQYGLPEKWLIGSLFGVLFTVIGLVLGRITSESLRRKRSRL 420
Db 361 EASPGSSQSVPEVQYGLPEKWLIGSLFGVLFTVIGLVLGRITSESLRRKRSRL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
RESULT 13
ABU60244
ID ABU60244 standard; protein; 431 AA.
XX
XX ABU60244;
AC
XX
XX 24-APR-2003 (first entry)
DT
XX
XX Human PRO polypeptide #15.
DE
XX Human; PRO; secreted polypeptide; transmembrane polypeptide; cancer;
XX inflammatory disease; atherosclerosis; cardiac injury; AIDS; infertility;
XX birth defect; premature aging; diabetes; dog; cat; horse;
XX acquired immunodeficiency syndrome; cow; sheep; pig; goat; rabbit;
XX industry; cytostatic; antiinflammatory; cardiac; antifertility;
XX anti-HIV; antitartarostatic; antidiabetic.
XX
XX Homo sapiens.
OS
XX US2002132768-A1.
PN
XX 19-SEP-2002.
PD
XX
XX 31-AUG-2001; 2001US-00945015.
PF
XX 03-DEC-1997; 97US-0067411P.
PR 11-DEC-1997; 97US-0069278P.
PR 11-DEC-1997; 97US-0069334P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 16-DEC-1997; 97US-0069694P.
PR 16-DEC-1997; 97US-0069696P.
PR 16-DEC-1997; 97US-0069702P.
PR 17-DEC-1997; 97US-0069870P.
PR 17-DEC-1997; 97US-0069873P.
PR 18-DEC-1997; 97US-0068017P.
PR 05-JAN-1998; 98US-0070440P.
PR 09-FEB-1998; 98US-0074068P.
PR 09-FEB-1998; 98US-0074092P.
PR 25-FEB-1998; 98US-0075945P.
PR 16-SEP-1998; 98WO-US019330.
PR 01-DEC-1998; 98WO-US025108.
PR 16-DEC-1998; 98US-00216021.
PR 16-DEC-1998; 98US-0112850P.
PR 22-DEC-1998; 98US-0021851P.
PR 22-DEC-1998; 98US-0113296P.
PR 03-MAR-1999; 99US-00254311.
PR 22-JUN-1999; 99WO-US012252.
PR 28-JUN-1999; 99US-0146222P.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US030095.
PR 16-DEC-1999; 99WO-US030095.
PR 11-FEB-2000; 2000WO-US003565.
PR 22-FEB-2000; 2000WO-US004414.
PR 02-MAR-2000; 2000WO-US005841.

30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 28-JUL-2000; 2000WO-US020710.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001US-US008520.
PR 25-MAY-2001; 2001US-00866028.
XX
XX (GENTH) GENENTECH INC.
XX
XX Baker KP, Boretstein D, Eaton DL, Ferrara N, Filvaroff E,
PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gunney AL,
PI Hillan KJ, Kijavlin IJ, Napier MA, Roy MA, Tumas D, Wood WI;
XX
XX MPI; 2003-174088/17.
DR N-PSDB; ABX89495.
XX
XX New secreted and transmembrane polypeptides (e.g. PRO241, for use in
PT pharmaceuticals, diagnostics or bioreactors, particularly for detecting
PT or treating e.g. cancers, infertility or acquired immunodeficiency
PT syndrome in mammals.
XX
XX Claim 1, Fig 32; 173pp; English.
XX
XX The invention relates to a human secreted and transmembrane polypeptide
CC (PRO) and the polynucleotide encoding it. The PRO polypeptide or
CC polynucleotide is useful in pharmaceuticals, diagnostics, biosensors or
CC bioreactors. These are particularly useful for detecting or treating
CC cancers, inflammatory diseases, atherosclerosis, cardiac injury,
CC infertility, birth defects, premature aging, acquired immunodeficiency
CC syndrome (AIDS) and diabetic complications in mammals, e.g. humans, dogs,
CC cats, cattle, horses, sheep, pigs, goats or rabbits. The sequences are
CC also useful in biotechnological and medical research and in various
CC industrial applications. Sequences AB060230-AB060245 represent human PRO
CC polypeptides of the invention
XX
SQ Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 6; Length 431;
Best Local Similarity 100.0%; Pred No.3.6e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFPGEGSLTYTLVILICFTLRASQNCLEKSLDEVDIDIOSLSKGRGNEPVYTSQ 60
Db 1 MFPGEGSLTYTLVILICFTLRASQNCLEKSLDEVDIDIOSLSKGRGNEPVYTSQ 60

QY 61 EDCINSCSTKNISGKACNLMIPTDKTARQPCYLFPCPNEACPLKPAKGLMSYRII 120
Db 61 EDCINSCSTKNISGKACNLMIPTDKTARQPCYLFPCPNEACPLKPAKGLMSYRII 120

QY 121 TDFPSSLTRNLPSEQLPQEDSLHGFQSOAVTPLAHHHTYSKPTDISMDTSLQKRGSSD 180
Db 121 TDFPSSLTRNLPSEQLPQEDSLHGFQSOAVTPLAHHHTYSKPTDISMDTSLQKRGSSD 180

QY 181 HLEKLFKMDASQALAAVEKKGSSQSSDOEIHMLPENVSALPATVAASPTTTGA 240
Db 181 HLEKLFKMDASQALAAVEKKGSSQSSDOEIHMLPENVSALPATVAASPTTTGA 240

QY 241 TRKPAFLPTNASTVTSQTPQATAPVTTVTSQPTTLISVFTRAAATLQAMAT 300
Db 241 TRKPAFLPTNASTVTSQTPQATAPVTTVTSQPTTLISVFTRAAATLQAMAT 300

QY 301 AVLTTFQAPTDKSGLETFIPFEISNLTNGNVNPNALSNVNSTNMTASMEGR 360
Db 301 AVLTTFQAPTDKSGLETFIPFEISNLTNGNVNPNALSNVNSTNMTASMEGR 360

QY 361 EASPGSSSQGSVENVQGLPFEKMLIGSLFGVLFLVGLVGLGRIILSSLRKKYSRL 420
Db 361 EASPGSSSQGSVENVQGLPFEKMLIGSLFGVLFLVGLVGLGRIILSSLRKKYSRL 420

QY 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

RESULT 14
ABU72590
ID ABU72590 standard; protein; 431 AA.
XX
XX AC ABU72590;
XX
XX DT 17-JUN-2003 (first entry)
XX
XX DE Novel human secreted and transmembrane protein PRO361.
XX
XX Human; secreted and transmembrane protein; cytostatic; anti-HIV;
XX virucide; hepatocytic; antiinflammatory; neuroprotective; gene therapy;
KW PRO; pharmaceutical; diagnostic; biosensor; bioreactor; malignancy;
KW cancer; ovarian cancer; colorectal cancer; Kaposi's sarcoma; leukaemia;
KW lymphoma; hepatitis B; multiple sclerosis; Crohn's disease;
KW drug screening.
XX
XX OS Homo sapiens.
XX
XX PN US2003003531-A1.
XX
XX PD 02-JAN-2003.
XX
XX PF 19-NOV-2001; 2001US-00989734.
XX
XX PR 16-JUN-1997; 97US-0049787P.
XX PR 17-OCT-1997; 97US-0062250P.
XX PR 05-NOV-1997; 97WO-US020069.
XX PR 12-NOV-1997; 97US-0065186P.
XX PR 13-NOV-1997; 97US-0065311P.
XX PR 24-NOV-1997; 97US-0066770P.
XX PR 25-FEB-1998; 98US-0075945P.
XX PR 20-MAR-1998; 98US-0078910P.
XX PR 28-APR-1998; 98US-0083322P.
XX PR 07-MAY-1998; 98US-0084600P.
XX PR 28-MAY-1998; 98US-0087106P.
XX PR 02-JUN-1998; 98US-0087607P.
XX PR 02-JUN-1998; 98US-0087609P.
XX PR 02-JUN-1998; 98US-0087759P.
XX PR 03-JUN-1998; 98US-0087821P.
XX PR 04-JUN-1998; 98US-0088021P.
XX PR 04-JUN-1998; 98US-0088025P.
XX PR 04-JUN-1998; 98US-0088026P.
XX PR 04-JUN-1998; 98US-0088028P.
XX PR 04-JUN-1998; 98US-0088029P.
XX PR 04-JUN-1998; 98US-0088030P.
XX PR 04-JUN-1998; 98US-0088033P.
XX PR 04-JUN-1998; 98US-0088326P.
XX PR 05-JUN-1998; 98US-0088167P.
XX PR 05-JUN-1998; 98US-0088202P.
XX PR 05-JUN-1998; 98US-0088212P.
XX PR 05-JUN-1998; 98US-0088217P.
XX PR 09-JUN-1998; 98US-0088655P.
XX PR 10-JUN-1998; 98US-0088734P.
XX PR 10-JUN-1998; 98US-0088738P.
XX PR 10-JUN-1998; 98US-0088742P.
XX PR 10-JUN-1998; 98US-0088810P.
XX PR 10-JUN-1998; 98US-0088824P.
XX PR 10-JUN-1998; 98US-0088826P.
XX PR 11-JUN-1998; 98US-0088858P.
XX PR 11-JUN-1998; 98US-0088861P.
XX PR 11-JUN-1998; 98US-0088876P.
XX PR 12-JUN-1998; 98US-0089105P.
XX PR 16-JUN-1998; 98US-0089410P.
XX PR 16-JUN-1998; 98US-0089512P.
XX PR 16-JUN-1998; 98US-0089514P.
XX PR 17-JUN-1998; 98US-0089532P.
XX PR 17-JUN-1998; 98US-0089538P.
XX PR 17-JUN-1998; 98US-0089598P.
XX PR 17-JUN-1998; 98US-0089599P.
XX PR 17-JUN-1998; 98US-0089600P.
XX PR 17-JUN-1998; 98US-0089633P.

PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98MO-US019330.
PR 17-SEP-1998; 98MO-US019437.
PR 07-OCT-1998; 98MO-US021141.
PR 01-DEC-1998; 98MO-US025108.
PR 05-JAN-1999; 99MO-US000106.
PR 08-MAR-1999; 99MO-US005028.
PR 02-JUN-1999; 99MO-US012252.
PR 15-SEP-1999; 99MO-US021090.
PR 15-SEP-1999; 99MO-US021547.
PR 30-NOV-1999; 99MO-US028313.
PR 01-DEC-1999; 99MO-US028301.
PR 01-DEC-1999; 99MO-US028634.
PR 16-DEC-1999; 99MO-US030095.
PR 20-DEC-1999; 99MO-US030911.
PR 05-JAN-2000; 2000MO-US000219.
PR 06-JAN-2000; 2000MO-US000376.
PR 11-FEB-2000; 2000MO-US003565.
PR 18-FEB-2000; 2000MO-US004341.
PR 22-FEB-2000; 2000MO-US004914.
PR 24-FEB-2000; 2000MO-US005004.
PR 02-MAR-2000; 2000MO-US005841.
PR 10-MAR-2000; 2000MO-US006319.
PR 15-MAR-2000; 2000MO-US006884.
PR 20-MAR-2000; 2000MO-US007377.
PR 30-MAR-2000; 2000MO-US008439.
PR 15-MAY-2000; 2000MO-US013358.
PR 17-MAY-2000; 2000MO-US013705.
PR 22-MAY-2000; 2000MO-US014042.
PR 30-MAY-2000; 2000MO-US014941.
PR 02-JUN-2000; 2000MO-US015264.
PR 28-JUL-2000; 2000MO-US020710.
PR 11-AUG-2000; 2000MO-US022031.
PR 23-AUG-2000; 2000MO-US023522.
PR 24-AUG-2000; 2000MO-US023328.
PR 08-NOV-2000; 2000MO-US030952.
PR 01-DEC-2000; 2000MO-US032678.
PR 28-FEB-2001; 2001MO-US006520.
PR 01-JUN-2001; 2001MO-US017806.
PR 20-JUN-2001; 2001MO-US019692.
PR 29-JUN-2001; 2001MO-US021066.
PR 09-JUL-2001; 2001MO-US021735.
PR 28-AUG-2001; 2001US-00941992.
XX
XX
XX (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL,
PI Ferreira N, Fong S, Gerber H, Gerltsen ME, Goddard A, Godowski PJ,
PI Grimaldi JC, Gurney AL, Kijavlin IJ, Napier MA, Pan J, Peoni NF,
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,
PI Zhang Z;
XX
XX WPI; 2003-352829/33.
XX N-PSDB; ACN64519.
XX
XX New genes and secreted and transmembrane polypeptides (e.g. PRO183 or
XX PRO184), useful for treating or diagnosing e.g. ovarian cancer, Kaposi's
XX sarcoma, leukemia, lymphoma, hepatitis B, multiple sclerosis or Crohn's
XX disease.
XX
XX Claim 12; Fig 328; 663bp; English.
XX
XX The invention describes a new isolated nucleic acid molecule comprising
XX the full length coding sequence of the DNA deposited with the American
XX Type Culture Collection (e.g. ATCC Deposit No. 209621, 552-PTA, 819-PTA,
XX 209439, 20135, etc.) or a sequence with at least 80% identity to a DNA
XX encoding a PRO polypeptide. The PRO polypeptides or polynucleotides are
XX useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These
XX are particularly useful for detecting or treating e.g. malignancies or
XX cancers (e.g. ovarian cancer, colorectal cancer, Kaposi's sarcoma,

CC leukemia or lymphoma), hepatitis B, multiple sclerosis, or Crohn's
CC disease in mammals. The PRO polypeptides are useful in drug screening,
CC particularly as targets for therapeutic intervention in these diseases,
CC and in the diagnostic determination of the presence of these diseases.
CC The PRO polypeptides are also useful as molecular weight markers, or for
CC chromosome identification. The PRO genes are useful as hybridisation
CC probes, or for screening libraries of human cDNA, genomic DNA or mRNA.
CC The PRO genes may also be used in gene therapy, particularly for
CC replacing a defective gene. This is the amino acid sequence of a novel
CC human secreted and transmembrane PRO polypeptide
XX
XX
SQ Sequence 431 AA;
Query Match 100.0%; Score 2211; DB 6; Length 431;
Best Local Similarity 100.0%; Pred. No. 3.6e-173;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MFPGEGSLTYTVICFLTLRLASQNLKRSLEDVVIDIOSSLISKIRGNRPYTSQ 60
DB 1 MFPGEGSLTYTVICFLTLRLASQNLKRSLEDVVIDIOSSLISKIRGNRPYTSQ 60
QY 61 EDCINSCSTKNIISGDKACNIMIPDTRKTARQPCYLFPCNBEACPLKPAKGLMSYRII 120
DB 61 EDCINSCSTKNIISGDKACNIMIPDTRKTARQPCYLFPCNBEACPLKPAKGLMSYRII 120
QY 121 TDFPSLTNLPQELPQEDSLIHGQFQAVTPPLAHHHTDYKPPDISWRDTLSQKFGSSD 180
DB 121 TDFPSLTNLPQELPQEDSLIHGQFQAVTPPLAHHHTDYKPPDISWRDTLSQKFGSSD 180
QY 181 HLEKLFKMDKSAQOLAYKKGKSHSQSSQFSDOEIAHLIPNVSLPPTVAVASHTTSA 240
DB 181 HLEKLFKMDKSAQOLAYKKGKSHSQSSQFSDOEIAHLIPNVSLPPTVAVASHTTSA 240
QY 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPYTVTVSQPTLLISTVFTRAATLQAMATT 300
DB 241 TPKPATLLPTNASVTPSGTSQPOLATTAPPYTVTVSQPTLLISTVFTRAATLQAMATT 300
QY 301 AVLTTFQAPLPDSKGSLETTIPTEISNLTNTGVNVPFALSMSNVESSTMNKTSWEGR 360
DB 301 AVLTTFQAPLPDSKGSLETTIPTEISNLTNTGVNVPFALSMSNVESSTMNKTSWEGR 360
QY 361 EASPGSSQGSVPENQVGLPPEKMLIGSLFGVLFVIGLVIGRLISESLRRRYRRL 420
DB 361 EASPGSSQGSVPENQVGLPPEKMLIGSLFGVLFVIGLVIGRLISESLRRRYRRL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431
XX
XX RESULT 15
XX ABU64930
XX ID ABU64930 standard; protein; 431 AA.
XX
XX AC ABU64930;
XX
XX DT 15-MAY-2003 (first entry)
XX
XX DE Human secreted/transmembrane protein PRO361.
XX
XX KW Human; PRO; secreted protein; transmembrane protein;
XX Coriell de Lange syndrome; gene therapy; immune disorder;
XX inflammatory disease; organ failure; atherosclerosis; cardiac injury;
XX infertility; birth defect; premature aging; cardiac injury; AIDS; cancer;
XX diabetic complication.
XX
XX OS Homo sapiens.
XX
XX PN US2002173463-A1.
XX
XX PD 21-NOV-2002.
XX
XX PF 31-AUG-2001; 2001US-00944944.

XX 03-DEC-1997; 97US-0067411P.
 PR 11-DEC-1997; 97US-0069278P.
 PR 11-DEC-1997; 97US-0069334P.
 PR 11-DEC-1997; 97US-0069335P.
 PR 12-DEC-1997; 97US-0069425P.
 PR 16-DEC-1997; 97US-0069694P.
 PR 16-DEC-1997; 97US-0069696P.
 PR 16-DEC-1997; 97US-0069702P.
 PR 17-DEC-1997; 97US-0069870P.
 PR 17-DEC-1997; 97US-0069873P.
 PR 18-DEC-1997; 97US-0068017P.
 PR 05-0AN-1998; 98US-0070440P.
 PR 09-FEB-1998; 98US-0074086P.
 PR 09-FEB-1998; 98US-0074092P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 16-SEP-1998; 98WO-US019330.
 PR 01-DEC-1998; 98WO-US025108.
 PR 16-DEC-1998; 98US-0112850P.
 PR 22-DEC-1998; 98US-0113296P.
 PR 02-JUN-1999; 99WO-US012252.
 PR 28-JUL-1999; 99US-0146222P.
 PR 15-SEP-1999; 99WO-US021090.
 PR 30-NOV-1999; 99WO-US028313.
 PR 30-NOV-1999; 99WO-US028409.
 PR 01-DEC-1999; 99WO-US028301.
 PR 16-DEC-1999; 99WO-US030095.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 01-DEC-2000; 2000WO-US032718.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 25-MAY-2001; 2001US-00866028.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Boerstlein D, Eaton DL, Ferrara N, Filvaroff E;
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
 PI Hillan KJ, Kijavyn IJ, Napier MA, Roy MA, Tumas D, Wood WI;
 DR
 XX
 DR MPI: 2003-311003/30.
 DR N-PSDB; ABX96832.
 PT New transmembrane polypeptides and polynucleotides useful for chromosome
 PT identification, tissue typing, gene therapy, in chromosome and gene
 PT mapping, or as molecular weight markers.
 XX
 PS Claim 12; Fig 32; 172pp; English.
 XX
 CC The invention relates to an isolated nucleic acid encoding a secreted/
 CC transmembrane polypeptide (designated as PRO proteins). 15 PRO
 CC polypeptides and their encoding polynucleotides are disclosed. Also
 CC included are a vector comprising the PRO nucleic acid, a host cell
 CC comprising the vector, a process for producing a PRO polypeptide (by
 CC culturing the host cell under conditions for the expression of the PRO
 CC polypeptide, and recovering the PRO polypeptide from the cell culture, an
 CC isolated polypeptide having at least 80% amino acid sequence identity to
 CC the PRO polypeptides, a chimeric molecule comprising PRO fused to a
 CC heterologous amino acid sequence and an antibody which specifically binds
 CC to PRO. The PRO nucleotide sequences are useful as hybridisation probes,
 CC in chromosome and gene mapping, in generating sense and antisense RNA or
 CC DNA, in generating transgenic or knock-out animals which can be used in
 CC the development and screening of therapeutically useful reagents, and in
 CC gene therapy. The polypeptides may be used as molecular weight markers
 CC for protein electrophoresis purposes. The PRO polypeptides and nucleic
 CC acids may also be used for chromosome identification, and tissue typing.
 CC PRO241 (identified as Chordin) is a candidate gene for Cornelia de Lange
 CC syndrome. Other PRO proteins are variously implicated in immune
 CC disorders, inflammatory disease, organ failure, atherosclerosis, cardiac
 CC injury, infertility, birth defects, premature aging, cardiac injury.

CC AIDS, cancer and diabetic complications. The present sequence represents
 CC a PRO protein
 XX
 SQ Sequence 431 AA;
 Query Match 100.0%; Score 2211; DB 6; Length 431;
 Best Local Similarity 100.0%; Pred. No. 3.6e-173;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MFPGEGSLTYTVVICPLTRLASQNCLEEDVIDIQSSLSKGRGNEPVYTSTQ 60
 DB 1 MFPGEGSLTYTVVICPLTRLASQNCLEEDVIDIQSSLSKGRGNEPVYTSTQ 60
 QY 61 EDCINSCSTKNISGDKACNMIFDTRKTARQPCNYLFCCENEACPLKPAKGLMSYRII 120
 DB 61 EDCINSCSTKNISGDKACNMIFDTRKTARQPCNYLFCCENEACPLKPAKGLMSYRII 120
 QY 121 TDFPSLTNLPQSELPOEDSLHGFQFQAVTPPLAHHHTDYKSPDTSWRDTLSQKFGSSD 180
 DB 121 TDFPSLTNLPQSELPOEDSLHGFQFQAVTPPLAHHHTDYKSPDTSWRDTLSQKFGSSD 180
 QY 181 HLEKLFKMDKSAOQLAYKEKGHSQSSQFSSDOEIAHLIPENVSALPATVAASPHTTSA 240
 DB 181 HLEKLFKMDKSAOQLAYKEKGHSQSSQFSSDOEIAHLIPENVSALPATVAASPHTTSA 240
 QY 241 TPKPATLTPTNASVTPSGTSQPOLATTAPPYTVTSQPTTLISTVFTRAATLQAMATT 300
 DB 241 TPKPATLTPTNASVTPSGTSQPOLATTAPPYTVTSQPTTLISTVFTRAATLQAMATT 300
 QY 301 AVLTTPAPPTDSKGSLETFTEISNLTNTGAVNYPTALSMGVESSTYNNKTAASWGR 360
 DB 301 AVLTTPAPPTDSKGSLETFTEISNLTNTGAVNYPTALSMGVESSTYNNKTAASWGR 360
 QY 361 EASPGSSQGSVPENQYGLPEKMLLIGSLFGLVLTIGLVLGRILSESLLRRKYSRL 420
 DB 361 EASPGSSQGSVPENQYGLPEKMLLIGSLFGLVLTIGLVLGRILSESLLRRKYSRL 420
 QY 421 DYLINGIYVDI 431
 DB 421 DYLINGIYVDI 431

Search completed: April 28, 2004, 12:57:51
 Job time : 63 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Comugen Ltd.

OM protein - protein search, using sw model

Run on: April 28, 2004, 12:56:43 ; Search time 23 Seconds
(without alignments)
967.426 Million cell updates/sec

Title: US-10-677-471-83

Perfect score: 2211

Sequence: 1 MFPGGSGSLTYLVIIICFLT.....LRRKYSRLDYINGIYVDI 431

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/2/1aa/5A_COMB.pep:*
2: /cgn2_6/prodata/2/1aa/5B_COMB.pep:*
3: /cgn2_6/prodata/2/1aa/5A_COMB.pep:*
4: /cgn2_6/prodata/2/1aa/5B_COMB.pep:*
5: /cgn2_6/prodata/2/1aa/PCTUS_COMB.pep:*
6: /cgn2_6/prodata/2/1aa/Backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2211	100.0	431	4	US-09-866-028-83
2	183	8.3	266	4	US-09-489-847-332
3	145.5	6.6	629	4	US-09-241-581B-6
4	145.5	6.6	629	4	US-08-265-428-6
5	145.5	6.6	629	5	PCT-US95-07721-6
6	129	5.8	175	3	US-08-700-651-12
7	129	5.8	175	3	US-08-928-361B-17
8	129	5.8	175	4	US-09-588-995A-17
9	128	5.8	249	3	US-08-700-651-15
10	128	5.8	249	3	US-08-928-361B-20
11	128	5.8	249	4	US-09-588-995A-20
12	127.5	5.7	1601	4	US-09-345-473B-40
13	127	5.7	288	4	US-09-216-393B-341
14	127	5.7	288	4	US-09-216-393B-344
15	127	5.7	357	1	US-08-078-683A-8
16	127	5.7	357	4	US-08-471-970A-8
17	126.5	5.7	1837	3	US-08-928-361B-5
18	126.5	5.7	1837	4	US-09-588-995A-5
19	126	5.7	878	4	US-09-556-706B-2
20	125.5	5.7	1721	3	US-08-700-651-5
21	125.5	5.7	1721	3	US-08-928-361B-6
22	125.5	5.7	1721	4	US-09-588-995A-6
23	125	5.7	2137	4	US-09-134-001C-4463
24	124.5	5.6	451	1	PCT-US95-09941-2
25	124.5	5.6	451	5	PCT-US95-09941-2
26	123.5	5.6	806	1	US-08-270-076A-11
27	123	5.6	150	3	US-08-928-361B-18

28	123	5.6	150	4	US-09-588-995A-18	Sequence 18, Appl
29	123	5.6	216	3	US-08-928-361B-27	Sequence 27, Appl
30	123	5.6	334	4	US-09-197-970B-7	Sequence 7, Appl
31	121.5	5.5	216	3	US-08-928-361B-8	Sequence 8, Appl
32	121.5	5.5	216	4	US-09-588-995A-8	Sequence 4, Appl
33	121	5.5	750	4	US-09-165-239A-4	Sequence 4, Appl
34	120.5	5.5	162	3	US-08-700-651-13	Sequence 13, Appl
35	119	5.4	138	3	US-08-700-651-10	Sequence 10, Appl
36	119	5.4	138	3	US-08-928-361B-15	Sequence 15, Appl
37	119	5.4	138	4	US-09-588-995A-15	Sequence 15, Appl
38	119	5.4	401	6	5252556-1	Patent No. 5252556
39	119	5.4	786	3	US-09-103-429A-3	Sequence 3, Appl
40	119	5.4	805	3	US-09-103-429A-4	Sequence 3, Appl
41	118.5	5.4	521	1	US-08-276-213-3	Sequence 9, Appl
42	118	5.3	789	4	US-08-971-188-9	Sequence 22, Appl
43	118	5.3	789	4	US-09-374-454-22	Sequence 22, Appl
44	118	5.3	907	3	US-08-783-774-2	Sequence 1, Appl
45	118	5.3	907	4	US-09-328-599A-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-09-866-028-83

Sequence 83, Application US/09866028

Patent No. 6642360
GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Botstein, David

APPLICANT: Baton, Dan

APPLICANT: Ferrara, Napoleone

APPLICANT: Filvaroff, Ellen

APPLICANT: Gerritsen, Mary

APPLICANT: Goddard, Audrey

APPLICANT: Grimaldi, Christopher

APPLICANT: Guirney, Austin

APPLICANT: Hillan, Kenneth

APPLICANT: Kljavin, Ivar

APPLICANT: Napier, Mary

APPLICANT: Roy, Margaret

APPLICANT: Tumas, Daniel

APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE REFERENCE: P2548P1C1

CURRENT APPLICATION NUMBER: US/09/866, 028

CURRENT FILING DATE: 2001-05-25

Prior application data removed - consult PALM or file wrapper

NUMBER OF SEQ ID NOS: 120

SEQ ID NO 83

LENGTH: 431

TYPE: PRT

ORGANISM: Homo Sapien

US-09-866-028-83

Query Match 100.0%; Score 2211; DB 4; Length 431;

Best Local Similarity 100.0%; Pred. No. 3.5e-202;

Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MFPGGSGSLTYLVIIICFLTFLASONCKLSLDDVYDIOSLSKIRGNEPYTSTQ	60
DB	1	MFPGGSGSLTYLVIIICFLTFLASONCKLSLDDVYDIOSLSKIRGNEPYTSTQ	60
QY	61	ECINSCCSTKNISGDKACNLMIPTRTKAROPNCYLFECPEBEACPLKPAKGLMSYRII	120
DB	61	ECINSCCSTKNISGDKACNLMIPTRTKAROPNCYLFECPEBEACPLKPAKGLMSYRII	120
QY	121	TDFPSLTRNLPSQELPQEDSLIHGQPSQAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD	180
DB	121	TDFPSLTRNLPSQELPQEDSLIHGQPSQAVTPPLAHHHTDYSKPTDISWRDTLSQKFGSSD	180

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QY 181 HLEKLFKNDDEASAOQLAYKEKGHSQSSQPSDQETIAHLIPENVASLPATVAVASPHTTSA 240
Db 181 HLEKLFKNDDEASAOQLAYKEKGHSQSSQPSDQETIAHLIPENVASLPATVAVASPHTTSA 240
QY 241 TPKPATLLPTNASVPSGTSQPOLATTAPVTVTSQSPTTISTVTFPRAATLQAMATT 300
Db 241 TPKPATLLPTNASVPSGTSQPOLATTAPVTVTSQSPTTISTVTFPRAATLQAMATT 300
QY 301 AVLTTFQAPTDKSGSLETIPTETISNLTNTGNYNPALSMNSVSSSTMNKTASWEGR 360
Db 301 AVLTTFQAPTDKSGSLETIPTETISNLTNTGNYNPALSMNSVSSSTMNKTASWEGR 360
QY 361 EASPSSSSGSVENQYGLPFEEKWLLIGSLFGVLFVIGLVLRRIISGLRRKRYSL 420
Db 361 EASPSSSSGSVENQYGLPFEEKWLLIGSLFGVLFVIGLVLRRIISGLRRKRYSL 420
QY 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

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RESULT 2

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US-09-489-847-332
; Sequence 332, Application US/09489847
; Patent No. 6476195

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; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; EARLIER FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 332
; LENGTH: 266
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (97)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (174)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (199)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (195)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (206)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-489-847-332

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Query Match 8.3%; Score 183; DB 4; Length 266*
Best Local Similarity 27.2%; Pred. No. 3.8e-09;

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Matches 80; Conservative 42; Mismatches 116; Indels 56; Gaps 13;
QY 158 TDYSKPTDISWRDLTQKFGSSDHLKLFKNDDEASAOQLAYKEKGHSQSSQPSDQETIAH 217
Db 5 TEDSRITDVSPPATSG---GAADGVTSIAPVAVASSTTAA-----SITTAASMTVAS 54
QY 218 LIPENVASLPATVAVASPHT-----TSATPPATL-LPTNASV-----TPS--GTSQPOLA 265
Db 55 SAP-TTAASSTTVASIAFTTASSMTAASSTPMIALPAPSTYTGRRPSSTATGHPSL 113
QY 266 TPAPVTVTSQSPTTISTVTFPRAATLQAMATTAVLTTFQA-PTDSKGSLETIPTET 324
Db 114 TALAQPKSSALPRTATLTATRA---QVATTAUTSSPMSTRPSPSKMPSDTASLP 169
QY 325 ISNLTNTGNYNPALSMNSVSSSTMNKTASWEGREASPGSSQSGSVENQYGLPF 381
Db 170 VPPMX-----PQAGPISQSVDPQVNVTT-----XKSTKMPSNHTTXPL 209
QY 382 -----EKWLLIGSLFGVLFVIGLVLRRIISGLRRKRYSLDYLINGIYVD 430
Db 210 TQAVVDKTLILVLLGVTLPFTVLVLFALQAYESYKKKDYTOVDYLINGMYAD 263

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RESULT 3

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US-09-241-581B-6
; Sequence 6, Application US/09241581B
; Patent No. 6350859

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; GENERAL INFORMATION:
; APPLICANT: Massachusetts Institute of Technology
; TITLE OF INVENTION: Class BI and CI Scavenger Receptors
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESS: Patrea L. Pabst
; STREET: 2800 One Atlantic Center
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: USA
; ZIP: 30309-3450
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/241,581B
; FILING DATE: 02-Feb-1999
; CLASSIFICATION: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Pabst, Patrea L.
; REGISTRATION NUMBER: 31,284
; REFERENCE/DOCKET NUMBER: M16620
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404) 873-8794
; TELEFAX: (404) 873-8795
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 629 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEetical: NO
; FRAGMENT TYPE: internal
; FEATURE:
; NAME/KEY: misc. feature
; LOCATION: 1..629
; OTHER INFORMATION: /Function = "Amino acid sequence for the
; Drosophila Melanogaster Scavenger Receptor
; Class CI."
; FEATURE:
; NAME/KEY: Modified-site
; LOCATION: 30..353
; OTHER INFORMATION: /note= "Positions 30-32, 90-92,

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LOCATION: 1..20 /note= "Amino acids 1-20 represent
OTHER INFORMATION: a putative signal sequence."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 21..74 /note= "Amino acids 21-74 represent
OTHER INFORMATION: complement control protein domain number 1."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 75..127 /note= "Amino acids 75-127
OTHER INFORMATION: represent complement control protein domain number
OTHER INFORMATION: 2."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 128..312 /note= "Amino acids 128-312
OTHER INFORMATION: represent an MAM domain."
FEATURE:
NAME/KEY: Disulfide-bond
LOCATION: 22..381 /note= "The cysteines at positions
OTHER INFORMATION: 22, 45, 59, 72, 77, 99, 113, 128, 136, 144, 216,
OTHER INFORMATION: 217, 254, 310, 339, 343, 361, 367, 373, 374 and 381
OTHER INFORMATION: represent potential disulfide linkages."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 338..381 /note= "Amino acids 338-381
OTHER INFORMATION: represent a somatomedin B domain."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 387..514 /note= "Amino acids 387-514
OTHER INFORMATION: represent a mucin-like potential O-linked
OTHER INFORMATION: glycosylation region."
FEATURE:
NAME/KEY: Domain
LOCATION: 544..564 /note= "Amino acids 544-565
OTHER INFORMATION: represent a putative TM domain."
FEATURE:
NAME/KEY: Domain
LOCATION: 565..629 /note= "Amino acids 565-629
OTHER INFORMATION: represent a putative cytoplasmic domain."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 576..602 /note= "Amino acids 576-579 and
OTHER INFORMATION: 599-602 represent casein kinase II sites."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 578..592 /note= "Amino acids 578-580 and
OTHER INFORMATION: 590-592 represent protein kinase C sites."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 596..599 /note= "Amino acids 596-599
OTHER INFORMATION: represent a CAMP protein kinase site."
US-08-265-428-6
Query Match 6.6%; Score 145.5; DB 4; Length 629;
Best Local Similarity 22.9%; Pred. No. 5.7e-05;
Matches 48; Conservative 30; Mismatches 79; Indels 53; Gaps 5;
Qy 213 OEIAHLLENVSAIPATVAVASPHR-----TSATPKPALLLPTNMSVTPSGNSQ 261
Db 383 KEULTTEDDLSLPPVTYSTSTTRKSTTTTSTTTSTTTTKRPPTTTTKATTT 442
Qy 262 POLATAPPVTTVTQOPPTTLISTVETRAAATLQAMATTAVLTTFQAPTDKSLETIP 321

Db 443 KRITTKKPTTSTTPKPTTSTTPKSTSTSTSTSTPTTTTINVFTTK----- 495
Qy 342 FTEISNLNTNGVYNNPALSMSNVESITNKTSM-----GGRASPSSSGSVPE 374
Db 496 ---TTTWIPSTSEKTTGT---ITTWKTRKRITTMVNDPODIGHMDTSSTPAPLV- 546
Qy 375 NQYGLPEFKWLLIGSLFGVLFVIGLVLL 404
Db 547 -----VLYLLGIVLV 557
RESULT 5
PCT-US95-07721-6
Sequence 6, Application PC/TUS9507721
GENERAL INFORMATION:
APPLICANT: Massachusetts Institute of Technology
TITLE OF INVENTION: Class BI and CI Scavenger Receptors
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Pabst
STREET: 2800 One Atlantic Center
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-3450
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/07721
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patrea L.
REGISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 873-8794
TELEFAX: (404) 873-8795
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 629 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal
FEATURE:
NAME/KEY: misc. feature
LOCATION: 1..629 /function = "Amino acid sequence for the
OTHER INFORMATION: Drosophila Melanogaster Scavenger Receptor
OTHER INFORMATION: Class CI."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 30..353 /note= "Positions 30-32, 90-92,
OTHER INFORMATION: 129-131, 180-182, 253-265 and 351-353
OTHER INFORMATION: represent potential N-glycosylation
OTHER INFORMATION: sites."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 1..20 /note= "Amino acids 1-20 represent
OTHER INFORMATION: a putative signal sequence."
FEATURE:
NAME/KEY: Modified-site
LOCATION: 21..74 /note= "Amino acids 21-74 represent
OTHER INFORMATION: a putative signal sequence."

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/928,361B
FILING DATE: 12-SEP-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/026,062
FILING DATE: 13-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: Verry, Hana
REGISTRATION NUMBER: 30,518
REFERENCE/DOCKET NUMBER: 480,76-1(HV)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-1677
TELEFAX: 650-324-1678
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 175 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-928-361B-17

Query Match 5.8%; Score 129; DB 3; Length 175;
Best Local Similarity 27.3%; Pred. No. 0.00027;
Matches 35; Conservative 15; Mismatches 74; Indels 4; Gaps 1;
QY 226 LPATVAVASPHHTSATPKPATLTPNASTVPSGTSQPOLATTAPVTVTSQPPTTLIST 285
DB 7 IPYKCVGKHTTT 62
QY 286 VETRAATLQAMATTAVLTTFQAPTDKSGSLTTPFEISNLTLNGVNPALSMNSN 345
DB 63 TTT 122
QY 346 VESSTMNK 353
DB 123 TTTTTTTK 130

RESULT 8
US-09-588-995A-17
Sequence 17, Application US/09588995A
Patent No. 6514697
GENERAL INFORMATION:
APPLICANT: PETERSEN, CAROLYN
APPLICANT: BARNES, DEBRA A.
APPLICANT: NELSON, RICHARD C.
APPLICANT: GUT, JIRI
TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
FILE REFERENCE: 480.19-5
CURRENT APPLICATION NUMBER: US/09/588,995A
CURRENT FILING DATE: 2000-06-06
PRIOR APPLICATION NUMBER: 08/827,171
PRIOR FILING DATE: 1997-03-27
PRIOR APPLICATION NUMBER: 08/928,361
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 08/700,651
PRIOR FILING DATE: 1996-08-14
PRIOR APPLICATION NUMBER: 08/415,751
PRIOR FILING DATE: 1995-04-03
NUMBER OF SEQ ID NOS: 115
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 17
LENGTH: 175
TYPE: PRT
ORGANISM: Cryptosporidium parvum
US-09-588-995A-17

Query Match 5.8%; Score 129; DB 4; Length 175;
Best Local Similarity 27.3%; Pred. No. 0.00027;
Matches 35; Conservative 15; Mismatches 74; Indels 4; Gaps 1;
QY 226 LPATVAVASPHHTSATPKPATLTPNASTVPSGTSQPOLATTAPVTVTSQPPTTLIST 285
DB 7 IPYKCVGKHTTT 62
QY 286 VETRAATLQAMATTAVLTTFQAPTDKSGSLTTPFEISNLTLNGVNPALSMNSN 345
DB 63 TTT 122
QY 346 VESSTMNK 353
DB 123 TTTTTTTK 130

RESULT 9
US-08-700-651-15
Sequence 15, Application US/08700651B
Patent No. 6015882
GENERAL INFORMATION:
APPLICANT: PETERSEN, CAROLYN
APPLICANT: LEECH, JAMES
APPLICANT: NELSON, RICHARD, C.
APPLICANT: GUT, JIRI
TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAs AND RNAs
TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
FILE REFERENCE: 480.19-4(HV)
CURRENT APPLICATION NUMBER: US/08/700,651B
CURRENT FILING DATE: 1997-08-14
EARLIER APPLICATION NUMBER: 08/415,751
EARLIER FILING DATE: 1995-04-03
NUMBER OF SEQ ID NOS: 15
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 15
LENGTH: 249
TYPE: PRT
ORGANISM: Cryptosporidium parvum
FEATURE:
OTHER INFORMATION: mutant/variant of SEQ ID NO:5
US-08-700-651-15

Query Match 5.8%; Score 128; DB 3; Length 249;
Best Local Similarity 26.0%; Pred. No. 0.00059;
Matches 34; Conservative 15; Mismatches 82; Indels 0; Gaps 0;
QY 226 LPATVAVASPHHTSATPKPATLTPNASTVPSGTSQPOLATTAPVTVTSQPPTTLIST 285
DB 7 IPYKCVGKHTTT 66
QY 286 VETRAATLQAMATTAVLTTFQAPTDKSGSLTTPFEISNLTLNGVNPALSMNSN 345
DB 67 TTT 126
QY 346 VESSTMNK 356
DB 127 TTTTTTTTTT 137

RESULT 10
US-08-928-361B-20
Sequence 20, Application US/08928361B
Patent No. 6071518
GENERAL INFORMATION:
APPLICANT: Petersen, Carolyn
TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
SPECIES INFECTIONS
NUMBER OF SEQUENCES: 30

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: PETERS, VERNY, JONES & BIRKA
STREET: 385 Sherman Avenue, Suite 6
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306-1840
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/928,361B
FILING DATE: 12-SEP-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/026,062
FILING DATE: 13-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: VERNY, Hana
REGISTRATION NUMBER: 30,518
REFERENCE/DOCKET NUMBER: 480.76-1(HV)
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-324-1677
TELEFAX: 650-324-1678
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 249 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-928-361B-20

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Query Match          5.8%; Score 128; DB 3; Length 249;
Best Local Similarity 26.0%; Pred. No. 0.00059;
Matches 34; Conservative 15; Mismatches 82; Indels 0; Gaps 0;

QY 226 LPATVAVSPHTTSATPKPATLTPNASTPBGTSQPOLATAPPVTVTSQPTTLST 285
DB 7 IPYKCVGKHTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 66
QY 286 VETRAATLQAMATTAVLTTFQAPTDKSGLETIPTEISNLTLTNGVNPALSMNSN 345
DB 67 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 126
QY 346 VESSTMNKTAS 356
DB 127 TTTTTTTTTTT 137

RESULT 11
US-09-588-995A-20
Sequence 20, Application US/09588995A
Patent No. 6514697
GENERAL INFORMATION:
APPLICANT: PETERSEN, CAROLYN
APPLICANT: BARNES, DEBRA A.
APPLICANT: NELSON, RICHARD C.
APPLICANT: GUT, JIRI
TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
TITLE OF INVENTION: INFECTIONS
FILE REFERENCE: 480.19-5
CURRENT APPLICATION NUMBER: US/09/588,995A
CURRENT FILING DATE: 2000-06-06
PRIOR APPLICATION NUMBER: 08/827,171
PRIOR FILING DATE: 1997-03-27
PRIOR APPLICATION NUMBER: 08/928,361
PRIOR FILING DATE: 1997-09-12
PRIOR APPLICATION NUMBER: 08/700,651
PRIOR FILING DATE: 1996-08-14

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PRIOR APPLICATION NUMBER: 08/415,751
PRIOR FILING DATE: 1995-04-03
NUMBER OF SEQ ID NOS: 115
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 20
LENGTH: 249
TYPE: PRT
ORGANISM: Cryptosporidium parvum
US-09-588-995A-20

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Query Match          5.8%; Score 128; DB 4; Length 249;
Best Local Similarity 26.0%; Pred. No. 0.00059;
Matches 34; Conservative 15; Mismatches 82; Indels 0; Gaps 0;

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QY 226 LPATVAVSPHTTSATPKPATLTPNASTPBGTSQPOLATAPPVTVTSQPTTLST 285
DB 7 IPYKCVGKHTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 66
QY 286 VETRAATLQAMATTAVLTTFQAPTDKSGLETIPTEISNLTLTNGVNPALSMNSN 345
DB 67 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 126
QY 346 VESSTMNKTAS 356
DB 127 TTTTTTTTTTT 137

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RESULT 12
US-09-345-473E-40
Sequence 40, Application US/09345473E
Patent No. 6558903
GENERAL INFORMATION:
APPLICANT: Hodge, Martin
TITLE OF INVENTION: No. 6558903el Kinases and Uses Thereof
FILE REFERENCE: 35800/183781
CURRENT APPLICATION NUMBER: US/09/345,473E
CURRENT FILING DATE: 1999-06-30
NUMBER OF SEQ ID NOS: 62
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 40
LENGTH: 1601
TYPE: PRT
ORGANISM: C. elegans
US-09-345-473E-40

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Query Match          5.8%; Score 127.5; DB 4; Length 1601;
Best Local Similarity 21.6%; Pred. No. 0.013;
Matches 83; Conservative 59; Mismatches 132; Indels 111; Gaps 20;

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QY 59 TOEDCINCCSTKNISGDK-----ACNLMIIPTRKTARQPNCLFPCPNEACPLKPA 111
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QY 112 KGL-MSYRIITDPPS--LTRNLPSQELFOEDSLHGFQCAVTPLAHHTDYSKPTDISW 168
DB 404 EGLQFAPIENDSDPEVQOMIEQOHIPDED-----TRNITLIXKXKVAFR----- 450
QY 169 RDTLSQKFGSSDHLKELPKMDEASAGLIAVEKHSQSS-----QPSDQELIAHLIPENVS 224
DB 451 RD-----RDH--RLLEIKRAKEEERIREBAIEKELRLRABAKEREKERELEKLE 500
QY 225 ALPATVAVSPHTTSATPKPATLTPNASTPBGTSQPOLATAPPVTVTSQPTTLST 267
DB 501 KKAATAAANPNPPIPTPATPHSSAQOQPIPPPLSTQTSABEQS--AQQPSVPVTMIA 559
QY 268 -APPVTVTSQPTTLSTVETRAATLQAMATTAV-----PTLSTVETRAATLQAMATTAV----- 302
DB 560 NIPAMSPISAPQPVLSAIVPTTMIH-VEKPSIIPQVNAVITAPVAANNVPSPP 618
QY 303 ---LTTTFQAPTDKSGLETIPTEISNLTLTNGVNPALSMNSN----- 351
DB 619 APFTEDIOTPTLQONTVPRTISTDASGLVINTPASIASPSPASADVDVASTAPVTPAP 678

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QY 352 NKTASWEGREASPGSSSGSVENQ 376
Db 679 TPTTTTGG-----GAAASTTTEKN 698

RESULT 13

US-09-216-393B-341
; Sequence 341, Application US/09216393B
; Patent No. 6514694
; GENERAL INFORMATION:
; APPLICANT: Milhausen, Michael James
; TITLE OF INVENTION: TOXOPLASMA GONDII PROTEINS, NUCLEIC ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: TX-1-C2
; CURRENT FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 08/994,825
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 366
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 341
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Toxoplasma gondii
US-09-216-393B-341

Query Match 5.7%; Score 127; DB 4; Length 288;
Best Local Similarity 21.2%; Pred. No. 0.00093;
Matches 44; Conservative 33; Mismatches 109; Indels 22; Gaps 3;

QY 178 SSDHLEKLFKMDAS-----AQLAYKEKGHSQSSQSSDDEIHLPE 221
Db 79 STDALDRVSQFDLVSLDVIIRMAQAKFDLGRLLITDIASGIGEGAMALMGEEAIFIRPR 138
QY 222 NVSALPATVAVASPHHTSATPKPATLPTNASVTPSGTSOPLATTAP-PVTYTSOAPT 280
Db 139 RSKRGKKT-----TTSSSTSTSTTTTSTTTTPTTTTPTTTTPTTTTPTTTTPT 193
QY 281 TLISVTFRAAATLOAMATTAVLTTFQAPTDKSGSLPTPEISNLTNTGNVNPPTA 340
Db 194 TTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPT 253
QY 341 LSMNSVESTNMKTASWEGREASPGSS 368
Db 254 TTTTPTTTTSTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPT 281

RESULT 14

US-09-216-393B-344
; Sequence 344, Application US/09216393B
; Patent No. 6514694
; GENERAL INFORMATION:
; APPLICANT: Milhausen, Michael James
; TITLE OF INVENTION: TOXOPLASMA GONDII PROTEINS, NUCLEIC ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: TX-1-C2
; CURRENT FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 08/994,825
; PRIOR FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 366
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 344
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Toxoplasma gondii
US-09-216-393B-344

Query Match 5.7%; Score 127; DB 4; Length 288;
Best Local Similarity 21.2%; Pred. No. 0.00093;
Matches 44; Conservative 33; Mismatches 109; Indels 22; Gaps 3;

QY 178 SSDHLEKLFKMDAS-----AQLAYKEKGHSQSSQSSDDEIHLPE 221
Db 79 STDALDRVSQFDLVSLDVIIRMAQAKFDLGRLLITDIASGIGEGAMALMGEEAIFIRPR 138

QY 222 NVSALPATVAVASPHHTSATPKPATLPTNASVTPSGTSOPLATTAP-PVTYTSOAPT 280
Db 139 RSKRGKKT-----TTSSSTSTSTTTTSTTTTPTTTTPTTTTPTTTTPTTTTPT 193
QY 281 TLISVTFRAAATLOAMATTAVLTTFQAPTDKSGSLPTPEISNLTNTGNVNPPTA 340
Db 194 TTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPT 253
QY 341 LSMNSVESTNMKTASWEGREASPGSS 368
Db 254 TTTTPTTTTSTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPT 281

RESULT 15

US-08-078-683A-8
; Sequence 8, Application US/08078683A
; Patent No. 5486599
; GENERAL INFORMATION:
; APPLICANT: Saunders, Scott
; APPLICANT: Bernfield, Merton
; APPLICANT: Kato, Masato
; TITLE OF INVENTION: Construction and Use of Synthetic
; TITLE OF INVENTION: Constructs Encoding Syndecan
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESS: LAHIVE & COCKFIELD
; STREET: 60 State Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII (text)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/078, 683A
; FILING DATE: 17-JUN-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Vincent, Matthew P.
; REGISTRATION NUMBER: 36,709
; REFERENCE/DOCKET NUMBER: CME-062
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 357 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FRAGMENT TYPE: Internal
US-08-078-683A-8

Query Match 5.7%; Score 127; DB 1; Length 357;
Best Local Similarity 26.3%; Pred. No. 0.0013;
Matches 67; Conservative 25; Mismatches 109; Indels 54; Gaps 11;

QY 159 DYSKPTDISWRDLSQKFGSSDHLKLFKMDASQAQLAYKEKGHSQSSQSSDDEIHL 218
Db 41 NYERVDLE-----GSGD--DPRGDELD--AYGSGSGYREGSGLETAIVSL 86
QY 219 LPENVSALPATVAV-----ASPHHTSAT--PK--PATLIP----- 249
Db 87 TTDTSVPLPTTVAVLPVTLVQPMATPFLPTEDTSPQQTISVLIYIPKITEAPVIPSWK 146
QY 250 ----TNASVTPSGTSOPLATTAPVTVTSQPTTLISVTFRAAATLOAMATTAVLT- 304
Db 147 TTAATTAADSDSPSTST--TTTAAATTTTITTTTISTVATSKPTTQRFPPPTVKAATTR 204

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 28, 2004, 12:57:58 ; Search time 48 Seconds
(without alignments)
2488.931 Million cell updates/sec

Title: US-10-677-471-83

Perfect score: 2211

Sequence: 1 MFPGEGSLTVLVIICFLT.....LRKKYSLDYLLINGIYVDI 431

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Gapop 10.0 , Gapext 0.5

Searched: 1138120 seqs, 277189581 residues

Total number of hits satisfying chosen parameters: 1138120

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	2211	100.0	431	9	US-09-989-722-515
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4	2211	100.0	431	9	US-09-989-729-515
5	2211	100.0	431	9	US-09-989-727-515
6	2211	100.0	431	9	US-09-944-449-83
7	2211	100.0	431	9	US-09-989-731-515
8	2211	100.0	431	9	US-09-944-457-83
9	2211	100.0	431	9	US-09-989-732-515
10	2211	100.0	431	9	US-09-991-073-515
11	2211	100.0	431	9	US-09-945-587-83
12	2211	100.0	431	9	US-09-990-442-515
13	2211	100.0	431	9	US-09-991-163-515
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16	2211	100.0	431	9	US-09-944-366-83	Sequence 83, Appl
17	2211	100.0	431	9	US-09-944-097-83	Sequence 83, Appl
18	2211	100.0	431	9	US-09-993-604-515	Sequence 515, App
19	2211	100.0	431	9	US-09-990-456-515	Sequence 515, App
20	2211	100.0	431	9	US-09-944-432-83	Sequence 83, Appl
21	2211	100.0	431	9	US-09-943-762-83	Sequence 83, Appl
22	2211	100.0	431	9	US-09-944-654-83	Sequence 83, Appl
23	2211	100.0	431	9	US-09-989-721-515	Sequence 515, App
24	2211	100.0	431	9	US-09-943-851A-83	Sequence 83, Appl
25	2211	100.0	431	9	US-09-944-413-83	Sequence 83, Appl
26	2211	100.0	431	9	US-09-992-558-515	Sequence 515, App
27	2211	100.0	431	9	US-09-944-403-83	Sequence 83, Appl
28	2211	100.0	431	9	US-09-944-896-83	Sequence 83, Appl
29	2211	100.0	431	9	US-09-944-944-83	Sequence 83, Appl
30	2211	100.0	431	9	US-09-989-293A-515	Sequence 515, App
31	2211	100.0	431	9	US-09-989-735-515	Sequence 515, App
32	2211	100.0	431	9	US-09-990-444-515	Sequence 515, App
33	2211	100.0	431	9	US-09-944-929-83	Sequence 83, Appl
34	2211	100.0	431	9	US-09-991-181-515	Sequence 515, App
35	2211	100.0	431	9	US-09-989-730-515	Sequence 515, App
36	2211	100.0	431	9	US-09-944-907-83	Sequence 83, Appl
37	2211	100.0	431	9	US-09-990-436-515	Sequence 515, App
38	2211	100.0	431	9	US-09-993-687-515	Sequence 515, App
39	2211	100.0	431	10	US-09-989-734-515	Sequence 515, App
40	2211	100.0	431	10	US-09-997-653-515	Sequence 515, App
41	2211	100.0	431	10	US-09-993-667-515	Sequence 515, App
42	2211	100.0	431	10	US-09-997-428-515	Sequence 515, App
43	2211	100.0	431	10	US-09-997-666-515	Sequence 515, App
44	2211	100.0	431	10	US-09-990-438-515	Sequence 515, App
45	2211	100.0	431	10	US-09-990-562-515	Sequence 515, App

ALIGNMENTS

RESULT 1
US-09-866-028-83
Sequence 83, Application US/09866028
Patent No. US20020058309A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Auelin
APPLICANT: Hillan, Kenneth
APPLICANT: Kljavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P2548PICI
CURRENT APPLICATION NUMBER: US/09/866,028
CURRENT FILING DATE: 2001-05-25
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 120
SEQ ID NO 83
LENGTH: 431
TYPE: PRT
ORGANISM: Homo Sapien
US-09-866-028-83
Query Match 100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 1.3e-179;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MFPGSGSLTYTTLVLIICFLTLRLSASQNCCKSLLEDVVIDIOSSLSKGRNEPVYTSTQ 60
Db 1 MFPGSGSLTYTTLVLIICFLTLRLSASQNCCKSLLEDVVIDIOSSLSKGRNEPVYTSTQ 60
OY 61 EDCINSCSTKNIISGDKACNMIIPTRKTARQPNQVLFPCPWEKACPLKPAKGLMSYII 120
Db 61 EDCINSCSTKNIISGDKACNMIIPTRKTARQPNQVLFPCPWEKACPLKPAKGLMSYII 120
OY 121 TDFPSELTLNLPSEQLPOEDSLHGOFSQAVTPLAHHTDYSKPTDISMRDLSQKFGSSD 180
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OY 181 HLEKLPKDEASAOULLAYEKCHSSQSSQDEIAHLIPENVSLPATVAASPHTTSA 240
Db 181 HLEKLPKDEASAOULLAYEKCHSSQSSQDEIAHLIPENVSLPATVAASPHTTSA 240
OY 241 TPKPATLPTNASVTPSGTPOQLATTAAPVTVTISQPTTLISVTFRAAATLOAMATT 300
Db 241 TPKPATLPTNASVTPSGTPOQLATTAAPVTVTISQPTTLISVTFRAAATLOAMATT 300
OY 301 AVLTTPAPATDSKSLLETIPTEISNLTANTGNVNPALSMNVESSTWTKTASWEGR 360
Db 301 AVLTTPAPATDSKSLLETIPTEISNLTANTGNVNPALSMNVESSTWTKTASWEGR 360
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Db 361 EASPSQSGSVPENQYGLPFEXKMLLIGSLFGVLFLVIGVLGRILSESIRRRYRRL 420
OY 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

RESULT 2

US-09-989-722-515
Sequence 515, Application US/09989722
Patent No. US2002072067A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
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APPLICANT: Tumas, Daniel
APPLICANT: Matanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC63
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PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;
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61 EDCINSCSTKNISGDKACNIMIPDRTKARQPNCYLFECNEEACPLKPAKGLMSYRII 120
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RESULT 3
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Sequence 515, Application US/09989723
Patent No. US20020072092A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
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APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
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/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09
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Query Match 100.0%; Score 2211; DB 9; Length 431;

Best Local Similarity 100.0%; Pred. No. 1.3e-179; Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
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/ APPLICANT: Williams, P. Mickey
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/ APPLICANT: Zhang, Zemin
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/ FILE OF INVENTION: Secured and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2730PLC56
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PRIOR FILING DATE:	1998-06-22

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2	PRIOR FILING DATE: 1998-06-23
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4	PRIOR FILING DATE: 1998-06-23
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6	PRIOR FILING DATE: 1998-06-24
7	PRIOR APPLICATION NUMBER: 60/09040411
8	PRIOR FILING DATE: 1998-06-24
9	PRIOR APPLICATION NUMBER: 60/09043551
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14	PRIOR FILING DATE: 1998-06-24
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22	PRIOR FILING DATE: 1998-06-24
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24	PRIOR FILING DATE: 1998-06-24
25	PRIOR APPLICATION NUMBER: 60/09067676
26	PRIOR FILING DATE: 1998-06-25
27	PRIOR APPLICATION NUMBER: 60/09067878
28	PRIOR FILING DATE: 1998-06-25
29	PRIOR APPLICATION NUMBER: 60/09069040
30	PRIOR FILING DATE: 1998-06-25
31	PRIOR APPLICATION NUMBER: 60/09069644
32	PRIOR FILING DATE: 1998-06-25
33	PRIOR APPLICATION NUMBER: 60/09069655
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35	PRIOR APPLICATION NUMBER: 60/09069666
36	PRIOR FILING DATE: 1998-06-25
37	PRIOR APPLICATION NUMBER: 60/09068662
38	PRIOR FILING DATE: 1998-06-26
39	PRIOR APPLICATION NUMBER: 60/09086333
40	PRIOR FILING DATE: 1998-06-26
41	PRIOR APPLICATION NUMBER: 60/09133601
42	PRIOR FILING DATE: 1998-07-01
43	PRIOR APPLICATION NUMBER: 60/09147878
44	PRIOR FILING DATE: 1998-07-02
45	PRIOR APPLICATION NUMBER: 60/09154444
46	PRIOR FILING DATE: 1998-07-01
47	PRIOR APPLICATION NUMBER: 60/09151919
48	PRIOR FILING DATE: 1998-07-02
49	PRIOR APPLICATION NUMBER: 60/09162666
50	PRIOR FILING DATE: 1998-07-02
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53	PRIOR APPLICATION NUMBER: 60/09197878
54	PRIOR FILING DATE: 1998-07-07
55	PRIOR APPLICATION NUMBER: 60/09198282
56	PRIOR FILING DATE: 1998-07-07
57	PRIOR APPLICATION NUMBER: 60/09218282
58	PRIOR FILING DATE: 1998-07-09

Query Match	100.0%	Score 2211	DB 9	Length 433
Best Local Similarity	100.0%	Pred. No. 1.3e-179		
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Qy	1	MFFGEGSLTYTLVYIICFLTRLRSASONCKLSLEDVVIDIQSSLKSGIRGNEPVYSTQ	60	
Dp	1	MFFGEGSLTYTLVYIICFLTRLRSASONCKLSLEDVVIDIQSSLKSGIRGNEPVYSTQ	60	
Qy	61	EDCINSCCSTKNISGDAKCNLMTFDFTKTAROPCYLFCPCNEACGLKPAKGLMSYRII	120	
Dp	61	EDCINSCCSTKNISGDAKCNLMTFDFTKTAROPCYLFCPCNEACGLKPAKGLMSYRII	120	
Qy	121	TDPESLTRNLPSEGLPEODSLIHQGFQAVYPLAHHTDYSKPIEDISWRDTSQFCGSSD	180	

Db 121 TDFPSLTRLNPSOELPOEDSLHGOFSQAVTPLAHHTDYSKPTDISWBDLISOKFGSSD 180
Qy 181 HHEKFPKDEASAOJLAEKESKSSQSSQSOEIAHLPEVNSALPATVAVASHTTSA 240
Db 181 HHEKFPKDEASAOJLAEKESKSSQSSQSOEIAHLPEVNSALPATVAVASHTTSA 240
Qy 241 TPKPATLLPTNASVPSGTSQPOLATTAAPVTTVTSQPTTLISVFTFAATLQAMAT 300
Db 241 TPKPATLLPTNASVPSGTSQPOLATTAAPVTTVTSQPTTLISVFTFAATLQAMAT 300
Qy 301 AVLTTTFOAPDTSKSLPTTPTTEISNLTNTGNVNPALSMNSVESSTWAKTASWEGR 360
Db 301 AVLTTTFOAPDTSKSLPTTPTTEISNLTNTGNVNPALSMNSVESSTWAKTASWEGR 360
Qy 361 EASPPSSSGSVPEKNOYGLPEFKMLIGSLRGLVFLVIGLVLGRILISELRKRSRL 420
Db 361 EASPPSSSGSVPEKNOYGLPEFKMLIGSLRGLVFLVIGLVLGRILISELRKRSRL 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
RESULT 5
US-09-989-727-515
Sequence 515 Application US/09989727
Patent No. US20020072497A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlesen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gueney, Austin J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730PIC65
CURRENT APPLICATION NUMBER: US/09/989,727
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
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PRIOR FILING DATE: 1998-02-25
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PRIOR FILING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 1,3e-179;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFPGEGSLTYTVTCFLTRLASQCLKKSIEDVVIDIOSSLSKGRNEPVYSTQ 60
DB 1 MFPGEGSLTYTVTCFLTRLASQCLKKSIEDVVIDIOSSLSKGRNEPVYSTQ 60
QY 61 EDCINSCSTNIGSDKACNIMIFDTRKTAQPNCYLFCFNEBACPLKPAKGLMSYRII 120
DB 61 EDCINSCSTNIGSDKACNIMIFDTRKTAQPNCYLFCFNEBACPLKPAKGLMSYRII 120
QY 121 TDFPSLTNLPQSQELPQEDSLHGFQSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
DB 121 TDFPSLTNLPQSQELPQEDSLHGFQSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
QY 181 HLEKLFKNDEASQULAKYKRGHSQSQSSDOETIAHLLENVVALPYTVVAPHTTSA 240
DB 181 HLEKLFKNDEASQULAKYKRGHSQSQSSDOETIAHLLENVVALPYTVVAPHTTSA 240
QY 241 TPKPATLPTNASVTPSGTSOPOLATTPPVTTVTSOPPTLISVFTRAATLQAMATT 300
DB 241 TPKPATLPTNASVTPSGTSOPOLATTPPVTTVTSOPPTLISVFTRAATLQAMATT 300
QY 301 AVLTTFQAPTDKSGSLETTIPTEISNTLTNGVYNPFTALSMSNVESTNKTASWEGR 360
DB 301 AVLTTFQAPTDKSGSLETTIPTEISNTLTNGVYNPFTALSMSNVESTNKTASWEGR 360
QY 361 EASPGSSQGSVPENQVGLPEKXLLIGSLFGVLFVIGVLGRILISELRKRYRRL 420
DB 361 EASPGSSQGSVPENQVGLPEKXLLIGSLFGVLFVIGVLGRILISELRKRYRRL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431

RESULT 6
US-09-944-449-83
Sequence 83, Application US/09944449
Patent No. US20020102647A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Austin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavich, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tumas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/944, 449
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866, 028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067, 411

PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
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PRIOR APPLICATION NUMBER: 60/069,278
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,425
PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,694
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,702
PRIOR FILING DATE: December 16, 1997
PRIOR APPLICATION NUMBER: 60/069,870
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/069,873
PRIOR FILING DATE: December 17, 1997
PRIOR APPLICATION NUMBER: 60/068,017
PRIOR FILING DATE: December 18, 1997
PRIOR APPLICATION NUMBER: 60/070,440
PRIOR FILING DATE: January 5, 1998
PRIOR APPLICATION NUMBER: 60/074,086
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/074,092
PRIOR FILING DATE: February 9, 1998
PRIOR APPLICATION NUMBER: 60/075,945
PRIOR FILING DATE: February 25, 1998
PRIOR APPLICATION NUMBER: 60/112,850
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 60/113,296
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 60/146,222
PRIOR FILING DATE: July 28, 1999
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: September 16, 1998
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: December 1, 1998
PRIOR APPLICATION NUMBER: 09/216,021
PRIOR FILING DATE: December 16, 1998
PRIOR APPLICATION NUMBER: 09/218,517
PRIOR FILING DATE: December 22, 1998
PRIOR APPLICATION NUMBER: 09/254,311
PRIOR FILING DATE: March 3, 1999
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: June 22, 1999
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: September 15, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28409
PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: No. US20020102647A1ember 30, 1999
PRIOR APPLICATION NUMBER: PCT/US99/28301
PRIOR FILING DATE: December 1, 1999
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: December 16, 1999
PRIOR APPLICATION NUMBER: PCT/US00/03565
PRIOR FILING DATE: February 11, 2000
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: February 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/05841
PRIOR FILING DATE: March 2, 2000
PRIOR APPLICATION NUMBER: PCT/US00/08439
PRIOR FILING DATE: March 30, 2000
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: May 22, 2000
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: July 28, 2000
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: December 1, 2000
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: February 28, 2001

NUMBER OF SEQ ID NOS: 120
SEQ ID NO 83
LENGTH: 431
TYPE: PRT
ORGANISM: Homo Sapien
US-09-944-449-83
Query Match 100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 1,3e-179;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MFFGEGSLTYTTLVLIICFLTLRLSASQNCLEDDVIDIQSSISKIGRNEPVYSTQ 60
DB 1 MFFGEGSLTYTTLVLIICFLTLRLSASQNCLEDDVIDIQSSISKIGRNEPVYSTQ 60
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DB 61 EDCINSCSTKXNISDPAKCNLMIFTRKTAQOPNCLFPCNNEECPLKPAKGLMSYRII 120
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DB 121 TDFPSLTNRNLPQELPOBDSLLHGOFSQAVTPLAHHHTDYSKPTDISMRDTLSOKFGSSD 180
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DB 181 HLEKLFKXDEASAOQLLAYKEKHSQSSQSSDOETIAHLLENVSALPATVAVASPHTTSA 240
QY 241 TPXPATLLPTNASVTPSGTSQPOLATTAPVTYVTSOPTTLISVTFRAAATLOAMATT 300
DB 241 TPXPATLLPTNASVTPSGTSQPOLATTAPVTYVTSOPTTLISVTFRAAATLOAMATT 300
QY 301 AVLTTPAPAPDSKGSLETIPTEISNLTNTGNYNPTALSMNSVESTMMKTSWEGR 360
DB 301 AVLTTPAPAPDSKGSLETIPTEISNLTNTGNYNPTALSMNSVESTMMKTSWEGR 360
QY 361 EASPPSSSSQSVENQYGLPEKXWLLIGSLFGVLFVIGVLRLLISESLRRRYRRL 420
DB 361 EASPPSSSSQSVENQYGLPEKXWLLIGSLFGVLFVIGVLRLLISESLRRRYRRL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431
RESULT 7
US-09-989-731-515
Sequence 515, Application US/09989731
Patent No. US20020103125A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Denoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PJC70
CURRENT FILING DATE: 2001-11-20
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
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;; PRIOR APPLICATION NUMBER: 60/092182
;; PRIOR FILING DATE: 1998-07-09

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Best Local Similarity 100.0%; Pred. No. 1,3e-179;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 EDCINSCCKTKNISGDKACNLMI FDRKKTAROPNCYLFCPEBEACPLKPAKGLMSYRII 120
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QY 181 HLEKLFKQDEASAOQLAYEKHSGSSOSSPSDOETIAHLLENVVSALPATVAASPHTTSA 240
DB 181 HLEKLFKQDEASAOQLAYEKHSGSSOSSPSDOETIAHLLENVVSALPATVAASPHTTSA 240
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DB 301 AVLTTTFOAPDTSKGSLETFIPTEISNLTANTGNVYNPTALSMNVESSTMNKTASWEGR 360
QY 361 EASPSSSSGSVPEVNOYGLPFEKMLIGSLRGVLFVYGLVLRIGLISESRKRYYSRL 420
DB 361 EASPSSSSGSVPEVNOYGLPFEKMLIGSLRGVLFVYGLVLRIGLISESRKRYYSRL 420
QY 421 DYLINGIYVDI 431
DB 421 DYLINGIYVDI 431

RESULT 8
US-09-944-457-83
; Sequence 83, Application US/09944457
; Patent No. US20020110859A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Baton, Dan

;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Geritsen, Mary
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul
;; APPLICANT: Girmaldi, Christopher
;; APPLICANT: Guiney, Austin
;; APPLICANT: Hillan, Kenneth
;; APPLICANT: Kijavina, Ivar
;; APPLICANT: Napier, Mary
;; APPLICANT: Roy, Margaret
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Wood, William
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P2548P1C1
;; CURRENT APPLICATION NUMBER: US/09/944,457
;; PRIOR FILING DATE: 2001-09-26
;; PRIOR APPLICATION NUMBER: 09/866,028
;; PRIOR FILING DATE: 2001-05-25
;; PRIOR APPLICATION NUMBER: 60/067,411
;; PRIOR FILING DATE: December 3, 1997
;; PRIOR APPLICATION NUMBER: 60/069,334
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,870
;; PRIOR FILING DATE: December 11, 1997
;; PRIOR APPLICATION NUMBER: 60/069,278
;; PRIOR FILING DATE: December 11, 1997
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;; PRIOR FILING DATE: December 12, 1997
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;; PRIOR FILING DATE: December 18, 1997
;; PRIOR APPLICATION NUMBER: 60/070,440
;; PRIOR FILING DATE: January 5, 1998
;; PRIOR APPLICATION NUMBER: 60/074,086
;; PRIOR FILING DATE: February 9, 1998
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;; PRIOR FILING DATE: February 9, 1998
;; PRIOR APPLICATION NUMBER: 60/075,945
;; PRIOR FILING DATE: February 25, 1998
;; PRIOR APPLICATION NUMBER: 60/112,850
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 60/113,296
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 60/146,222
;; PRIOR FILING DATE: July 28, 1999
;; PRIOR APPLICATION NUMBER: PCT/US98/19330
;; PRIOR FILING DATE: September 16, 1998
;; PRIOR APPLICATION NUMBER: PCT/US98/25108
;; PRIOR FILING DATE: December 1, 1998
;; PRIOR APPLICATION NUMBER: 09/216,021
;; PRIOR FILING DATE: December 16, 1998
;; PRIOR APPLICATION NUMBER: 09/218,517
;; PRIOR FILING DATE: December 22, 1998
;; PRIOR APPLICATION NUMBER: 09/254,311
;; PRIOR FILING DATE: March 3, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: June 22, 1999
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: September 15, 1999
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;; PRIOR FILING DATE: No. US20020110859A1eember 30, 1999
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; PRIOR FILING DATE: No. US200201108591member 30, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/28301
; PRIOR FILING DATE: December 1, 1999
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: December 16, 1999
; PRIOR APPLICATION NUMBER: PCT/US00/03565
; PRIOR FILING DATE: February 11, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: February 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: March 2, 2000
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; PRIOR FILING DATE: March 30, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: May 22, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/20710
; PRIOR FILING DATE: July 28, 2000
; PRIOR APPLICATION NUMBER: PCT/US00/32678
; PRIOR FILING DATE: December 1, 2000
; PRIOR APPLICATION NUMBER: PCT/US01/06520
; NUMBER OF SEQ ID NOS: 120
; SEQ ID NO 83
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-944-457-83

Query Match      100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 1.3e-179;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB      361  EASPSSSQSVENQYGLPFEKWLILGSLFGVLFVIVGLVLLGRILISELRRKYSRL 420
QY      421  DYLINGIYVDI 431
DB      421  DYLINGIYVDI 431

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; Patent No. US20020115145A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botstein, David
; APPLICANT: Eaton, Dan
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; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
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; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tamas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P2548P1C1
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; PRIOR FILING DATE: 2001-09-26
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;; PRIOR FILING DATE: March 2, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: March 30, 2000
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;; PRIOR FILING DATE: May 22, 2000
;; PRIOR APPLICATION NUMBER: PCT/US00/20710
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;; PRIOR FILING DATE: December 1, 2000
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; NUMBER OF SEQ ID NOS: 120
;; SEQ ID NO 83
;; LENGTH: 431
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-944-862-83

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Best Local Similarity 100.0%; Pred. No. 1,3e-179;
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DB 61 EDCINSCGSKNISGDKACNLMIFTRKTAROPNCYLFCCPNEBACPLKPAKGLMSYRII 120
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QY 181 HLEKLFKMDASAQOLLAAYEKHSGSSQSSDOEIHLLPENVSALPATVAVASPHITSA 240
DB 181 HLEKLFKMDASAQOLLAAYEKHSGSSQSSDOEIHLLPENVSALPATVAVASPHITSA 240
QY 241 TKPAPTLPLPTNASVTPSGTSQPLATTAPVTTVTISQPTTLISTVETRAAATLQAMATT 300
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DB 301 AVLTTFQAPDTSGSLFTITPTEISNLTANTGNVNPALSMNSVNESSTNKTASWEGR 360
QY 361 EASPPSSSGSVPENOGYLPFEKMLIGSLRGVLFLVIGLVLLGRILSESIRRRYSRL 420
DB 361 EASPPSSSGSVPENOGYLPFEKMLIGSLRGVLFLVIGLVLLGRILSESIRRRYSRL 420
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DB 421 DYLINGIYVDI 431

RESULT 10
US-09-989-732-515

;; Sequence 515, Application US/09989732
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;; GENERAL INFORMATION:
;; APPLICANT: Ashkenazi, Avi J.
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David

;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Baton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, J. Christopher
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Kljavin, Ivar J.
;; APPLICANT: Napier, Mary A.
;; APPLICANT: Pan, James
;; APPLICANT: Paoni, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2730PLC57
;; CURRENT APPLICATION NUMBER: US/09/989,732
;; PRIOR FILING DATE: 2001-11-19
;; PRIOR APPLICATION NUMBER: 60/049787
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PRIOR APPLICATION NUMBER: 60/091544
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PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 1,3e-179;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 EDCINSCSTKNISGDKACNMIFPTRKTAROPNCYLFCFNEBACPCKPAKGLMSYRII 120
DB 61 EDCINSCSTKNISGDKACNMIFPTRKTAROPNCYLFCFNEBACPCKPAKGLMSYRII 120
QY 121 TDFPSLTNRLPSOELEPQEDSLHGFQSAVTPPLAHHTDYAKPTDISWRDTLSQKFGSSD 180
DB 121 TDFPSLTNRLPSOELEPQEDSLHGFQSAVTPPLAHHTDYAKPTDISWRDTLSQKFGSSD 180
QY 181 HIEKLFKXDEASAOILAYKEKGHSQSSQFSSDOEIAHLIPENVSLPPTVAVASHTTSA 240
DB 181 HIEKLFKXDEASAOILAYKEKGHSQSSQFSSDOEIAHLIPENVSLPPTVAVASHTTSA 240
QY 241 TPKPATLPTNASVPSGTSOPOLATTAPVPTVTSOPPTLISVFTRAATLOAMATT 300
DB 241 TPKPATLPTNASVPSGTSOPOLATTAPVPTVTSOPPTLISVFTRAATLOAMATT 300

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Qy 361 EASPPSSGSGVPENYGSPFEKWLIGSLFGVLFVLVIGLGRHIISESIRRRXSR 420
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Db 361 EASPPSSGSGVPENYGSPFEKWLIGSLFGVLFVLVIGLGRHIISESIRRRXSR 420
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RESULT 11
US-09-991-073-515
; Sequence 515, Application US/09991073
; Patent No. US20020127576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C15
; CURRENT APPLICATION NUMBER: US/09/991,073
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
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PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

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Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 121 TDFPSLTNLPQDELPHQFSQAVTPLAHHHTDYSKPTDISWRDTLSQKFGSSD 180
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QY 361 EASPGSSSQSSVPENQYGLPEKXWLLIGSLIPGVLFVIGLVLLGRILISESLRRKYSRL 420
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QY 421 DYLLNGIYVDI 431
DB 421 DYLLNGIYVDI 431

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Patent No. US20020127643A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Baton, Dan
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Gottlieb, Mary
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Aubin
APPLICANT: Hillan, Kenneth
APPLICANT: KJavin, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tunas, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/945,587
CURRENT FILING DATE: 2001-09-26
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PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR FILING DATE: December 3, 1997
PRIOR APPLICATION NUMBER: 60/069,334
PRIOR FILING DATE: December 11, 1997
PRIOR APPLICATION NUMBER: 60/069,335
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PRIOR APPLICATION NUMBER: 60/069,278
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PRIOR FILING DATE: December 12, 1997
PRIOR APPLICATION NUMBER: 60/069,696

[illegible]

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/ PRIOR APPLICATION NUMBER: 60/091978
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/091982
/ PRIOR FILING DATE: 1998-07-07
/ PRIOR APPLICATION NUMBER: 60/092182
/ PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 2211; DB 9; length 431;
Best Local Similarity 100.0%; Pred.No.1,3e-179;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MFFGGGSLTYLVIIICFTLRSLASQNCCLKSLSDVDVIDIOSSLKGRNEPVYTSQ 60

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Db 121 TDFPSLTRNLPSQELPQEDSLHGCQSAVTPLAHHHTYSKPTDISWBDTSLQKFGSSD 180

QY 181 HLEKFKFNDDEASAOILAYEKEGHSSQSSDOEIAHLIPENVSAIPATVAASPTTISA 240
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QY 241 TPKPATLLPTNASVTPSGTSOPOLATTAAPTVTTVTSQPTTLTISTVFTFAAATLQAMAT 300
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QY 361 EASPGSSSGSVPENQYGLPFERKMLIGSLFGVLFLVIGLVLGRILISESLRRKYSRL 420
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Db 361 EASPGSSSGSVPENQYGLPFERKMLIGSLFGVLFLVIGLVLGRILISESLRRKYSRL 420

QY 421 DYLINGIYVDI 431
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Db 421 DYLINGIYVDI 431

RESULT 14
US-09-991-163-515
/ Sequence 515, Application US/09991163
/ Patent No. US20020132253A1
/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi J.
/ APPLICANT: Baker, Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gertlesen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Gurney, Austin L.
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/ APPLICANT: Kljavin, Ivar J.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Watanabe, Colin K.
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Zemin
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2730P17
/ CURRENT APPLICATION NUMBER: US/09/991,163
/ CURRENT FILING DATE: 2001-11-14
/ PRIOR APPLICATION NUMBER: 60/049787
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DB 421 DYLINGIYVDI 431

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Sequence 83, Application US/09945015
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GENERAL INFORMATION:
APPLICANT: Baker, Kevin
APPLICANT: Botstein, David
APPLICANT: Eaton, Dan
APPLICANT: Ferreira, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Grimaldi, Christopher
APPLICANT: Gurney, Auscin
APPLICANT: Hillan, Kenneth
APPLICANT: Kijavini, Ivar
APPLICANT: Napier, Mary
APPLICANT: Roy, Margaret
APPLICANT: Tuma, Daniel
APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
CURRENT APPLICATION NUMBER: US/09/945, 015
CURRENT FILING DATE: 2001-09-26
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PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067, 411
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PRIOR FILING DATE: February 28, 2001
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US-09-945-015-83

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DB 61 EDCINSCSTKNISGDKACNLMIPDRTKARQPNVLPFCPNEACPLKPAKGLMSYRII 120
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Wed Apr 28 14:09:49 2004

us-10-677-471-83.rapb

Page 22

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C:Date: 12-Mar-1996 #sequence_revision 19-Apr-1996 #text_change 13-Nov-1998			
C:Accession: J04566			
R:Pienko, E.J.; Kirkland, T.N.; Cole, G.T.			
Gene 167, 173-177, 1995			
A>Title: Isolation and characterization of two chitinase-encoding genes (cts1, cts2)			
A:Reference number: JC4565; MUID:96144270; PMID:8566773			
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A43932			
mucin 2 precursor, intestinal - human (fragments)			
N:Alternate names: mucin SMUC-41			
C:Species: Homo sapiens (man)			
C:Date: 10-Mar-1993 #sequence_revision 12-Apr-1996 #text_change 05-Nov-1999			
C:Accession: A49963; A45106; B45106; B33532; A61257; P00328; P00329			
R:Gum Jr., J.R.; Hicke, J.W.; Toribara, N.W.; Siddiki, B.; Klm, Y.S.			
J. Biol. Chem. 269, 2440-2446, 1994			
A>Title: Molecular cloning of human intestinal mucin (MUC2) cDNA. Identification of the			
A:Reference number: A49963; MUID:94132002; PMID:8300571			
A:Accession: A49963			
A:Molecule type: mRNA			
A:Residues: 1-639 <GB>			
A:Cross-references: GB:L21998			

R Gum J.R., U.R. Hicks, J.W.; Toribara, N.W.; Rothe, E.M.; Lagace, R.E.; Kim, Y.S.
J Biol Chem 267; 21375-21383, 1992
A>Title: The human MUC2 intestinal mucin has cysteine-rich subdomains located both upstr
A|Reference number: A45106; PMID:93016075; PMID:1400449
A|Accession: A45106
A>Status: not compared with conceptual translation
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A|Residues: 626-1895 <MG2>
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A|Cross-references: GB:M94132; NID:g186397; PIDN:AAA59164.1; PTD:g186398
A|Experimental source: colon
A>Note: Sequence extracted from NCBI backbone (NCBIP:116698)
R.Toribara, N.W.; Gum Jr., J.R.; Cullane, P.J.; Lagace, R.E.; Hicks, J.W.; Petersen, G.M
J Clin Invest 88; 1005-1013, 1991
A>Title: MUC-2 human small intestine mucin gene structure. Repeated arrays and polymorp
A|Reference number: A43332; PMID:91358717; PMID:1885763
A|Accession: A43332
A|Molecule type: DNA
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A|Cross-references: GB:H74027; NID:g188863; PIDN:AAA59875.1; PTD:g188864
A>Note: sequence inconsistent with the nucleotide translation
A|Note: Sequence extracted from NCBI backbone (NCBIN:55759, NCBIP:55750)
R.Gum, J.R.; Byrd, J.C.; Hicks, J.W.; Toribara, N.W.; Lampert, D.T.A.; Kim, Y.S.
J Biol Chem 264; 6480-6487, 1989
A>Title: Molecular cloning of human intestinal mucin cDNAs. Sequence analysis and eviden
A|Reference number: A33532; PMID:89197956; PMID:2703501
A|Accession: B33532
A|Molecule type: mRNA
A|Residues: 1916-2193 <GU4>
A|Cross-references: GB:M22405; NID:g188873; PIDN:AA36334.1; PTD:g188874
A|Experimental source: intestine
R.Jany, B.H.; Gallup, M.W.; Yan, P.S.; Gum, J.R.; Kim, Y.S.; Basbaum, C.B.
J Clin Invest 87; 77-82, 1991
A>Title: Human bronchus and intestine express the same mucin gene.
A|Reference number: A61257; PMID:91086481; PMID:1985113
A|Accession: A61257
A>Status: not compared with conceptual translation
A|Molecule type: mRNA
A|Residues: 'T', 1925-1948, 'TTG', 1952-1954 <JAN>
A|Experimental source: bronchus
R.Xu, G.; Huan, L.; Khatri, I.; Sajjan, U.S.; McCool, D.; Wang, D.; Jones, C.; Forester,
Biochem Biophys Res Commun 193; 821-828, 1992
A>Title: Human intestinal mucin-like protein (MLP) is homologous with rat MLP in the C-t
A|Accession: PQ0328; PMID:92198477; PMID:1550588
A|Molecule type: mRNA
A|Residues: 2328-2468 <XUG>
A|Cross-references: GB:M86523
A|Experimental source: small intestine
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A|Gene: GDB:MUC2
A|Cross-references: GDB:I20203; OMIM:158370
A|Map position: 11p15.5-11p15.5
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C|Keywords: glycoprotein; intestine; tandem repeat
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Ddb 1511 PASTTLPPRTTSPPPTTTTTPTTSSPPPTTRPRSTRFTTLTPPTTSSPPPTTVT 1570


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OC Alphaherpesvirinae; Varicellovirub.
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RX MEDLINE=92295566; PubMed=1318606;
RA Telford E.A.R., Watson M.S., McBride K., Davison A.J.;
RT "The DNA sequence of equine herpesvirus-1.";
RL Virology 189:304-316(1992).
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation-
CC the European Bioinformatics Institute. There are no restrictions on its
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CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@sib-sib.ch).
CC -----
CC EMBL; M86664; AAB02506.1; -
DR PIR; H36802; VGBEX1.
DR InterPro; IPR007110; IG-like.
KW Glycoprotein; Transmembrane; Signal.
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FT CHAIN 23 22 POTENTIAL.
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FT TRANSMEM 76 465 SER/THR-RICH.
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QY 218 LIPENVALPATVAVASPHHTSATPKPATLPTNASTV----- 256
Db 89 SAPSTASTTST 148
QY 257 ---SSTSQOLAT-TAPPTTYSOFPPTTLISTVTRAAATLOAMAFTAVLTTTQAPTD 312
Db 149 ATATATSTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTTPTT 208

QY 313 SKGSLTIPTEISNLTNTGNYNPATLSNVSSSTYANKTASWEGREASPGSSQGS 371
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AC P54197;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Endochitinase 2 precursor (EC 3.2.1.14).
GN CTS2.
OS Coccidioides posadasii.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
OC Onygenales; Microsporici Onygenales; Coccidioides.
OX NCBI_TaxId=199306;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C735;
RX MEDLINE=96144270; PubMed=8566773;
RA Plenko E.V., Kirkland T.N., Cole G.T.;
RT "Isolation and characterization of two chitinase-encoding genes
RT (cts1, cts2) from the fungus Coccidioides immitis.";
RL Gene 167:173-177(1995).
CC CC
CC -1- FUNCTION: May be associated with endospore.
CC -1- CATALYTIC ACTIVITY: Hydrolysis of the 1,4-beta-linkages of N-
CC acetyl-D-glucosamine polymers of chitin.
CC -1- SIMILARITY: Belongs to chitinase class II (family 18 of glycosyl
CC hydrolases).
CC -----
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CC -----
CC EMBL; L41662; AAB92642.1; -
DR HSSP; P23472; 2HVM.
DR InterPro; IPR001223; Glyco_hydro_18.
DR InterPro; IPR001579; Glyco_hydro_18AB.
DR Pfam; PF00704; Glyco_hydro_18; 1.
DR PROSITE; PS01095; CHITINASE_18; 1.
KW Hydrolase; Glycosidase; Chitin degradation; Chitin-binding; Signal;
KW Glycoprotein.
FT SIGNAL 1 22 POTENTIAL.
FT CHAIN 23 860 ENDOCHITINASE 2.
FT CARBOHYD 90 90 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 860 AA; 91395 MW; 5E34B54FPA663F3C CRC64;

Query Match 6.8%; Score 150.5; DB 1; Length 860;
Best Local Similarity 23.9%; Pred. No. 0.018;
Matches 78; Conservative 49; Mismatches 141; Indels 59; Gaps 12;

QY 65 NSCSTKN-IGDRACNIMTDRKTARQ--PNCYLPFCNENACPLKPAKGLMSYRIT 120
Db 235 NPSCKAKWVNPXSVTYTDVWDWKYRKSGNPYAKFI----- 273
QY 121 TDPSELTNLPSOE--LPQEDSLHGOESQAV-TPLAHHHTDYSKPTDISWRDLTSC--K 175
Db 274 -----GLPASASAANKEDYLTPEAKTKVSTYMAKYBPTFGM--MVAEATASENNK 323
QY 176 FGSSDHL-----EKLKMD---EASQALLAYKEKHSOSSQSFSDOEIAHLLENVSAALPA 228
Db 324 LGGPYADIMKEVLLRCDDPDPPTSTVSTSTASTSTGSSOSTMETETTLASATTPSPSS 363
QY 229 TVAVASPHHTSATPKPATLPTNASTVPSGTSQOLATTPATPVTVTTSQFPPTTLISTVFT 288
Db 384 TVSPSSSTWQSTSTGTSST 440


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FT CARBOHYD 4373 4373 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4422 4422 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4438 4438 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4502 4502 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4616 4616 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4627 4627 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4752 4752 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4787 4787 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4881 4881 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4888 4888 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4955 4955 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 4970 4970 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 5019 5019 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 5038 5038 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 5069 5069 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CONFLICT 1351 1351 H -> L (IN REF. 3).
FT CONFLICT 1412 1412 T -> S (IN REF. 3).
FT CONFLICT 1449 1449 L -> P (IN REF. 3).
FT CONFLICT 1504 1504 M -> T (IN REF. 3).
FT CONFLICT 1492 1492 G -> S (IN REF. 2).
SQ SEQUENCE 5179 AA; 540295 MW; 85CD0571FB9A5663 CRC64;

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Query Match 6.8%; Score 149.5; DB 1; Length 5179;
Best Local Similarity 34.1%; Pred. No. 0.2;
Matches 43; Conservative 12; Mismatches 52; Indels 19; Gaps 4;

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OY 220 PENVALPATVAVASPHHTSATPKPATL-LPTNNAVTP--SGTSOPQLATAPVTVT 275
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 1511 PASTTTLPTTTPSPPTTTPPTTTPPTTTPPTTTPPTTTPPTTTPPTTTPPTT 1570
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 276 SQPPTTLIS-----TVFTRAAATLQAMATVAVLTTFQAPDSCSLPTTPT 323
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 1571 TTPPTTSPPTTTPPTTTPPTTTPPTTTPPTTTPPTTTPPTTTPPTTTPPTT 1627
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
OY 324 EISNLT 329
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
DB 1628 PPTSTT 1633
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

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RESULT 5

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MUSB_HUMAN STANDARD; PRT; 5703 AA.
AC Q9H084; O00447; O00573; O14985; O15494; O95291; O95451; O14881;
AC Q99552; Q9J828;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Mucin 5B precursor (Mucin 5 subtype B, tracheobronchial) (High
DE molecular weight salivary mucin MG1) (Sublingual gland mucin).
GN MUC5B OR MUC5.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
OX NCBI_TaxId:9606;
RN [1]
RP SEQUENCE OF 1-1594 FROM N.A.
RA Chen Y., Di Y.P., Wu R.;
RT "Molecular cloning of the amino-terminal and 5'-flanking region of the
RT human MUC5B mucin gene.";
RL Submitted (NOV-1998) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE OF 1-1325 FROM N.A.
RA MEDLINE=9909274; PubMed=9790959;
RT "The amino-terminal sequence of MUC5B contains conserved
RT multifunctional D domains: implications for tissue-specific mucin
RT functions.";
RL Biochem. Biophys. Res. Commun. 251:350-355(1998).
RN [3]
RP SEQUENCE OF 40-1324 FROM N.A.
RA MEDLINE=99023932; PubMed=9804771;
RA Desseyn J.-L., Bulsine M.P., Porchet N., Aubert J.-P., Laine A.;
RT "Genomic organization of the human mucin gene MUC5B: cDNA and genomic

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RT sequences upstream of the large central exon.";
RL J. Biol. Chem. 273:30157-30164(1998).
RN [4]
RP SEQUENCE OF 1326-4895 FROM N.A.
RC TISSUE=Placenta;
RX MEDLINE=97166151; PubMed=9013550;
RA Desseyn J.-L., Guyonnet-Duperrat V., Porchet N., Aubert J.-P.,
RA Laine A.;
RT "Human mucin gene MUC5B, the 10.7 kb large central exon encodes
RT various alternate subdomains resulting in a super-repeat. Structural
RT evidence for a 11p15.5 gene family.";
RL J. Biol. Chem. 272:3166-3178(1997).
RN [5]
RP SEQUENCE OF 4057-4480 FROM N.A.
RC TISSUE=Salivary gland;
RX MEDLINE=97292540; PubMed=9147051;
RA Nielsen P.A., Bennett E.P., Wandall H.H., Therkildsen M.H.,
RA Hannibal J., Clausen H.;
RT "Identification of a major human high molecular weight salivary mucin
RT (MG1) as tracheobronchial mucin MUC5B.";
RL Glycobiology 7:413-419(1997).
RN [6]
RP SEQUENCE OF 4721-5703 FROM N.A.
RC TISSUE=Gall bladder;
RX MEDLINE=97293229; PubMed=9164870;
RA Keates A.C., Nunes D.P., Aldhal N.H., Troxler R.F., Offner G.D.;
RT "Molecular cloning of a major human gall bladder mucin: complete C-
RT terminal sequence and genomic organization of MUC5B.";
RL Biochem. J. 324:295-303(1997).
RN [7]
RP SEQUENCE OF 4809-5687 FROM N.A.
RC TISSUE=Sublingual gland;
RX MEDLINE=96125355; PubMed=8554565;
RA Troxler R.F., Offner G.D., Zhang F., Ioncheva I., Oppenheim F.G.;
RT "Molecular cloning of a novel high molecular weight mucin (MG1)
RT from human sublingual gland.";
RL Biochem. Biophys. Res. Commun. 217:1112-1119(1995).
RN [8]
RP SEQUENCE OF 4859-5703 FROM N.A.
RC TISSUE=Placenta;
RX MEDLINE=97347489; PubMed=9201995;
RA Desseyn J.-L., Aubert J.-P., Porchet N., Laine A.;
RT "Genomic organization of the 3 region of the human MUC5B mucin.";
RL J. Biol. Chem. 272:16873-16883(1997).
CC -1- FUNCTION: Salivary mucin that is thought to contribute to the
CC lubricating and viscoelastic properties of whole saliva.
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: Expressed mainly in bronchus glands and also
CC in submaxillary glands, endocervix, gall bladder, and pancreas.
CC -1- PTM: Highly glycosylated.
CC -1- SIMILARITY: Contains 1 TIL (Trypsin inhibitory-like) domain.
CC -1- SIMILARITY: Contains 3 WFG domains.
CC -1- SIMILARITY: Contains 4 WFG domains.
CC -1- SIMILARITY: Contains 1 C-terminal cysteine knot-like (CTCK) domain.
CC -----
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CC -----
DR EMBL, AF107890; AAC33673.1; -
DR EMBL, AF086604; AAC67545.1; -
DR EMBL, AJ004862; CAA06167.1; -
DR EMBL, Z72496; CAA96577.1; -
DR EMBL, X74955; CAA52910.1; -
DR EMBL, U61836; AAB61398.1; -
DR EMBL, U78554; AAC51344.1; -
DR EMBL, U78552; AAC51344.1; JOINED.
DR EMBL, U78553; AAC51344.1; JOINED.
DR EMBL, U78551; AAC51343.1; -

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DR EMBL: U95031; AAB65151.1; -
 DR EMBL: Y09788; CAA70926.1; -
 DR Genew: HGNC:7516; MUC5B.
 DR MIM: 600770; -
 DR GO: GO:0005515; F:protein binding; IPT.
 DR InterPro: IPR006208; Cys_knot.
 DR InterPro: IPR006207; Cys_knot_C.
 DR InterPro: IPR009041; PMP_inhibitor.
 DR InterPro: IPR002919; TIL_Cyrich.
 DR InterPro: IPR006552; VC_out.
 DR InterPro: IPR001007; VWF_C.
 DR InterPro: IPR001846; VWF_D.
 DR Pfam: PF00007; Cys_knot; 1.
 DR Pfam: PF01826; TIL; 1.
 DR Pfam: PF00093; VWC; 1.
 DR Pfam: PF00094; Vwd; 4.
 DR SMART: SM00214; VWC; 6.
 DR SMART: SM00215; VWC_out; 4.
 DR SMART: SM00216; VWD; 4.
 DR PROSITE: PS01185; CTCK_1; 1.
 DR PROSITE: PS01225; CTCK_2; 1.
 DR PROSITE: PS01208; VWC_1; 2.
 DR PROSITE: PS01208; VWC_2; 2.
 DR Glycoprotein; Repeat; Signal; Polymorphism.
 FT SIGNAL 1 25 POTENTIAL.
 FT CHAIN 26 5703 MUCIN 5B.
 FT DOMAIN 77 225 VWF 1.
 FT DOMAIN 329 386 TIL.
 FT DOMAIN 426 580 VWF 2.
 FT DOMAIN 858 918 VWF 1.
 FT DOMAIN 896 1044 VWF 3.
 FT DOMAIN 1457 1603 THR-RICH.
 FT DOMAIN 1609 1873 THR-RICH.
 FT DOMAIN 5005 5178 VWF 4.
 FT DOMAIN 5353 5425 VWF 2.
 FT DOMAIN 5462 5528 VWF 3.
 FT DOMAIN 5594 5683 CTCK.
 FT DISULFID 5594 5646 BY SIMILARITY.
 FT DISULFID 5622 5660 BY SIMILARITY.
 FT DISULFID 5626 5676 BY SIMILARITY.
 FT DISULFID 5643 5678 BY SIMILARITY.
 FT DISULFID 5645 5682 BY SIMILARITY.
 FT CARBOHYD 201 145 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 201 201 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 254 254 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 402 402 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 516 516 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 806 806 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 930 930 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1277 1277 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1293 1293 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1557 1557 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 1775 1775 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 2192 2192 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 2721 2721 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 3419 3419 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 3948 3948 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 4745 4745 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 4901 4901 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 4958 4958 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 4965 4965 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 4987 4987 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5037 5037 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5052 5052 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5156 5156 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5427 5427 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5467 5467 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5506 5506 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5507 5507 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5543 5543 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5553 5553 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5604 5604 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 5618 5618 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 5662 5662 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT VARIANT 5137 5137 T -> S (in dbSNP:2672788).
 FT 34 34 G -> E (IN REF. 2).
 FT 95 100 FPGCN -> LCLK (IN REF. 2).
 FT 104 104 S -> C (IN REF. 2).
 FT 142 142 E -> K (IN REF. 1).
 FT 225 225 R -> S (IN REF. 2).
 FT 330 331 PL -> T (IN REF. 2).
 FT 337 337 E -> N (IN REF. 2).
 FT 356 356 E -> K (IN REF. 2).
 FT 362 362 G -> R (IN REF. 2).
 FT 369 369 MISSING (IN REF. 2 AND 3).
 FT 374 374 D -> N (IN REF. 2).
 FT 393 394 RT -> TR (IN REF. 2).
 FT 468 469 RK -> GR (IN REF. 2).
 FT 512 512 L -> P (IN REF. 2).
 FT 587 587 GAA -> AH (IN REF. 3).
 FT 601 601 A -> S (IN REF. 3).
 FT 629 629 DP -> RS (IN REF. 2).
 FT 633 633 F -> L (IN REF. 2).
 FT 676 676 A -> P (IN REF. 3).
 Query Match 6.8%; Score 149.5; DB 1; Length 5703;
 Best Local Similarity 30.5%; Pred. No. 0.22;
 Matches 62; Conservative 22; Mismatches 58; Indels 61; Gaps 10;
 QY 204 SCSSQSPSSDQETIAHLLENVALPATVAVA-SPHTSATPKPATLLPTNASTPSCSTOP 262
 DB 1951 SKATPFSS-----PGATPALRSATPTPTSPFATPSSSL-----GTWT 1993
 QY 263 QATTAAPPTTV-----ISQPTTISYTFRAAATLQMA-----TTAVLT 304
 DB 1994 RLSQTTTPATWSTATPSSPTETVHTSTVLTATTTATTTGATGAVATPSSSTPGTAHTTKVLT 2053
 QY 305 TT---FOA-PTDSKSLTETPTEISNLTNT-----GNVYNPTALSMNVES 348
 DB 2054 TTTTGFTATPSSSPGRARLP-VWISTTTPTTRGSTVPSISPTHTHTVLTITTTT 2112
 QY 349 STMNKTASWEGREASPGSSQGS 371
 DB 2113 AT-----GSMATPSSSTQTS 2127
 RESULT 6
 ID MUSA_HUMAN STANDARD; PRT; 1233 AA.
 AC P98088; O76055; Q13792; Q8WMQ3;
 DT 01-FEB-1996 (Rel. 33; Created)
 DT 28-FEB-2003 (Rel. 41; Last sequence update)
 DE Mucin 5AC (Mucin 5 subtype AC, tracheobronchial) (Tracheobronchial
 GN MUC5AC (TBM) (Major airway glycoprotein) (Fragment).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OX NCBI_Taxid=9606;
 RN [1]
 RP SEQUENCE OF 1-372 FROM N.A.
 RX MEDLINE=21426417; PubMed=11535137;
 RA Escande F.; Aubert J.-P.; Porchet N.; Buisine M.P.;
 RT "Human mucin gene MUC5AC: organization of its 5'-region and central
 RL Biochem. J. 358:763-772(2001).
 RN [2]
 RP SEQUENCE OF 193-1233 FROM N.A., AND PARTIAL SEQUENCE.
 RC TISSUE=lung;
 RX MEDLINE=94230376; PubMed=7513696;
 RA Meerzaman D.; Charles P.; Daskal B.; Polymeropoulos M.H.;
 RA Martin B.M.; Rose M.C.;
 RT "Cloning and analysis of cDNA encoding a major airway glycoprotein,
 human tracheobronchial mucin (MUC5)." (POTENTIAL).

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DR EMBL; X59720; CAA42254.1; -
 DR PIR; S25345; S25345.
 DR GeneOnline; 138986; -
 DR SGD; S0000685; FIG2.
 DR GO; GO:0009277; C:cell wall (sensu Fungi); IDA.
 DR GO; GO:0000753; P:cellular morphogenesis during conjugation w. .; IMP.
 DR GO; GO:0000755; P:cycogamy; IMP.
 DR SEQUENCE 1609 AA; 166049 MW; 7D6AD7F85A7B852 CRC64;

Query Match 6.7%; Score 147.5; DB 1; Length 1609;
 Best Local Similarity 22.4%; Pred. No. 0.061;
 Matches 88; Conservative 63; Mismatches 164; Indels 77; Gaps 14;

QY 41 IGSLSKGRGNEPVYTSQEDCINSCCTKNISGDKACNMFDR---KTARQPCY 96
 DB 1057 IMSSSNVISTNEKEBSTTSPYNFSSGYSLPSSSTPSQYSLSTATTINGIKTV-----Y 1111

QY 97 LFFCNEEACPKPAKGLMSYRIITDPPLTRNLPSQELPOBDSLHGOFOAVPLAH 156
 DB 1112 TWCPLAEKSTV--AASSQSSRSVDRFVSSK--PSSLSQ--TSQYTLSTRTTISGL 1165

QY 157 HTDYKPKPDISWRDILSQKFGSSDHLKFKMDASQALLAYKXKXGSSQSO-----F 209
 DB 1166 KIVYTWCPILTSTKSTIGATGTSTRAKVRITSSASTISISLSTSESSSGYLSKGV 1225

QY 210 SSDDEIHLHPENVALPATVAVASP-----HTSATPKPAT---LHPNNAV 254
 DB 1226 CGGTCTQDVPQ--SSSPASTLAYSPSVSTSSSSPSTTASTLTSTHTSVPLPSSSSI 1284

QY 255 TFSGTSTQPOLATT---APPVTVTSQPTTLISTVTRAAATLQAMA-----TTAVLT 304
 DB 1285 SASSPSSSTLSTSLSPSPAFSTSTLPTATAVSSSTIASLSPSSKSLSPVSSSLM 1344

QY 305 TTFQAPTDKSGSLFTIPTEISNLTLNTGNYNPT----- 339
 DB 1345 SGFSSSSSSSSSLASLPSTLSP--TVDTVSVLQPTTSINTLCTDSQCQEVSTICNSGN 1403

QY 340 ---ALSMNVESSTANKTASWEGREASPGSSS 368
 DB 1404 CDVVTSTATTPSTVTDVMTCTGSECOKTTSS 1435

RESULT 8
 MUC1_XENLA STANDARD; PRT; 662 AA.
 ID MUC1_XENLA
 AC Q05049;
 DT 01-OCT-1994 (Rel. 30, Created)
 DT 01-OCT-1994 (Rel. 30, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Integumentary mucin C.1 (FIM-C.1) (Fragment).
 OS Xenopus laevis (African clawed frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae; Pipidae;
 OC Xenopodinae; Xenopus.
 OX NCBI_TaxID=8355;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORMS 1; 2; 3; 4; 5; 6 AND 7).
 RC TISSUE=Skin;
 RX MEDLINE=93077556; PubMed=1447205;
 RA Hauser F., Hoffmann W.;
 RT "P-domains as shuffled cysteine-rich modules in integumentary mucin
 RT C.1 (FIM-C.1) from Xenopus laevis. Polydispersity and genetic
 RT polymorphism.";
 RL J. Biol. Chem. 267:24620-24624(1992).
 CC -I- FUNCTION: Could be involved in defense against microbial

CC infections. Protects the epithelia from external environment.
 CC -I- SUBCELLULAR LOCATION: Secreted.
 CC -I- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing; Named isoforms=7;
 CC Comment=Additional isoforms seem to exist. Experimental
 CC confirmation may be lacking for some isoforms;
 CC Name=1;
 CC IsoId=Q05049-1; Sequence=Displayed;
 CC Name=2;
 CC IsoId=Q05049-2; Sequence=VSP_004650;
 CC Name=3;
 CC IsoId=Q05049-3; Sequence=VSP_004651;
 CC Name=4;
 CC IsoId=Q05049-4; Sequence=VSP_004647, VSP_004648;
 CC Name=5;
 CC IsoId=Q05049-5; Sequence=VSP_004646, VSP_004649, VSP_004650;
 CC Name=6;
 CC IsoId=Q05049-6; Sequence=VSP_004646, VSP_004648;
 CC Name=7;
 CC IsoId=Q05049-7; Sequence=VSP_004647;
 CC -I- TISSUE SPECIFICITY: Skin.
 CC -I- PTM: Extensively O-glycosylated.
 CC -I- SIMILARITY: Contains 6 P-type (trefoll) domains.
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DR EMBL; 102115; AAA74725.1; -
 DR PIR; A45155; A45155.
 DR HSP; P01359; 2PSP.
 DR InterPro; IPR000519; P_trefoll.
 DR Pfam; PF00088; trefoll; 6.
 DR PRINTS; PRO0680; PTFREFOLL.
 DR SMART; SM00018; PD; 6.
 DR PROSITE; PS00025; P_TREFOLL; 6.
 KW Repeat; Glycoprotein; Alternative splicing.
 FT NON TER 1
 FT DOMAIN 81 144
 FT REPEAT 81 86
 FT REPEAT 89 96
 FT REPEAT 97 104
 FT REPEAT 105 112
 FT REPEAT 113 120
 FT REPEAT 121 128
 FT REPEAT 129 136
 FT REPEAT 137 144
 FT DOMAIN 161 202
 FT REPEAT 218 301
 FT REPEAT 218 224
 FT REPEAT 225 239
 FT REPEAT 240 249
 FT REPEAT 250 259
 FT REPEAT 260 275
 FT REPEAT 276 287
 FT REPEAT 288 294
 FT REPEAT 295 301
 FT DOMAIN 306 347
 FT DOMAIN 353 394
 FT DOMAIN 402 522
 FT REPEAT 402 411
 FT REPEAT 412 419
 FT REPEAT 420 431
 FT REPEAT 432 443
 FT REPEAT 444 453
 FT REPEAT 454 460
 FT REPEAT 461 472

8 X 8 AA APPROXIMATE TANDEM REPEATS,
 ALA/THR-RICH.
 P-TYPE 1.
 8 X APPROXIMATE TANDEM REPEATS, THR-RICH.
 P-TYPE 2.
 12 X APPROXIMATE TANDEM REPEATS, THR-
 RICH.

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FT REPEAT 473 479 3-8.
FT REPEAT 480 491 3-9.
FT REPEAT 492 498 3-10.
FT REPEAT 499 515 3-11.
FT REPEAT 516 522 3-12.
FT DOMAIN 525 566 P-TYPE 4.
FT DOMAIN 572 613 P-TYPE 5.
FT DOMAIN 620 661 P-TYPE 6.
FT DISULFID 162 188 BY SIMILARITY.
FT DISULFID 172 187 BY SIMILARITY.
FT DISULFID 182 199 BY SIMILARITY.
FT DISULFID 307 333 BY SIMILARITY.
FT DISULFID 317 332 BY SIMILARITY.
FT DISULFID 327 344 BY SIMILARITY.
FT DISULFID 354 380 BY SIMILARITY.
FT DISULFID 374 379 BY SIMILARITY.
FT DISULFID 374 391 BY SIMILARITY.
FT DISULFID 526 552 BY SIMILARITY.
FT DISULFID 536 551 BY SIMILARITY.
FT DISULFID 546 563 BY SIMILARITY.
FT DISULFID 573 599 BY SIMILARITY.
FT DISULFID 583 598 BY SIMILARITY.
FT DISULFID 593 610 BY SIMILARITY.
FT DISULFID 621 647 BY SIMILARITY.
FT DISULFID 631 646 BY SIMILARITY.
FT DISULFID 651 658 BY SIMILARITY.
FT VARSPLIC 240 259 Missing (in isoform 5 and isoform 6).
FT VARSPLIC 250 259 /FTId=VSP_004646.
FT VARSPLIC 276 294 Missing (in isoform 4 and isoform 7).
FT VARSPLIC 278 278 Missing (in isoform 4 and isoform 6).
FT VARSPLIC 278 278 /FTId=VSP_004648.
FT VARSPLIC 306 350 Missing (in isoform 5).
FT VARSPLIC 420 498 /FTId=VSP_004649.
FT VARSPLIC 420 498 /FTId=VSP_004650.
FT VARSPLIC 420 498 Missing (in isoform 3).
FT VARSPLIC 420 498 /FTId=VSP_004651.
FT VARIANT 276 276 K -> E.
FT VARIANT 354 354 C -> R.
FT VARIANT 415 415 T -> A.
SQ SEQUENCE 662 AA, 67774 MW, P08527F1ED2FD40 CRC64;

Query Match 6.6%; Score 147; DB 1; Length 662;
Best Local Similarity 26.9%; Pred. No. 0.022;
Matches 49; Conservative 19; Mismatches 78; Indels 36; Gaps 5;

QY 228 ATVAASHTTATKPAATLPTNNSVPSGSGSOLATAPVTT-----VTSQPP 279
DB 394 STSQVAATKTT--TPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPT 451
QY 280 TLLISTVFTBAATLOAMATTAVALTTFOAPTDSKSLFTTFTETISNLTNTGNVNPPT 339
DB 452 TTTPTTTTATTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPTTTTPT 506
QY 340 ALSMNSVSSSTNNKTAS-----WEGREASPGSSSGSVENQ---YG 378
DB 507 TTTTATTTTATTTTTSGECKMEPSKADCGYGTESGCRKGGCCPDSISIQTKMCFYS 566
QY 379 LP 380
DB 567 LP 568

RESULT 9
SUBD_DROME STANDARD; PRT; 786 AA.
AC Q05319;
DT 01-JUN-1994 (Rel. 29, Created)
DT 01-JUN-1994 (Rel. 29, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Serine proteinase stubble (EC 3.4.21.-) (Stubble-scubblod protein).
GN SB OR SB-SBD.

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OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Oregon-R;
RX MEDLINE=93281671; PubMed=7685111;
RA Appel L.F., Prot M., Abu-Shumay R., Hammonds A., Garbe J.C.,
RT Fristrom D., Fristrom J.;
RT "The Drosophila Stubble-scubblod gene encodes an apparent
transmembrane serine protease required for epithelial
morphogenesis."
RL Proc. Natl. Acad. Sci. U.S.A. 90:4937-4941(1993).
CC -! FUNCTION: Hormone dependent protease required for epithelial
morphogenesis. Has a dual function, detaches imaginal disc cells
from extracellular matrices through its extracellular proteolytic
domain and transmits an outside-co-inside signal to its
intracellular domain to modify the cytoskeleton during
morphogenesis. May be able to activate itself.
CC -! SUBCELLULAR LOCATION: Type II membrane protein.
CC -! INDUCTION: By 20-hydroxyecdysone (20HE).
CC -! SIMILARITY: Belongs to peptidase family S1.
CC -! CAUTION: It is uncertain whether Met-1 or Met-24 is the initiator.
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CC
DR EMBL: L11451; AAA8918.1; -.
DR PIR: A47547; A47547.
DR HSR: P00763; IDPO.
DR MEROPS: S01.225; -.
DR FLYBase: FBgn0003319; Sb.
DR GO: GO:0004252; F:serine-type endopeptidase activity; NAS.
DR GO: GO:0007010; P:cytoskeleton organization and biogenesis; IMP.
DR InterPro: IPR009603; Cys_Ser_trypsin.
DR InterPro: IPR001254; Peptidase_S1.
DR InterPro: IPR001314; Peptidase_S1A.
DR Pfam: PF00089; trypsin.
DR PRINTS: PR00722; CHYMOTRYPSIN.
DR SMART: SM00020; Tryp_Spc_1.
DR PROSITE: PS00240; TRYPsin_DOM; 1.
DR PROSITE: PS00134; TRYPsin_HIS; FALSE_NEG.
DR PROSITE: PS00135; TRYPsin_SER; 1.
KW Hydrolase; Serine protease; Transmembrane; Glycoprotein; Zymogen;
KW Signal-anchor.
FT CHAIN 1 542 NON-CATALYTIC CHAIN (POTENTIAL).
FT CHAIN 543 786 CATALYTIC CHAIN (POTENTIAL).
FT DOMAIN 1 58 CYTOPLASMIC (POTENTIAL).
FT TRANSMBM 59 80 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN).
FT DOMAIN 81 786 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 543 786 SERINE PROTEASE.
FT DOMAIN 267 276 POLY-SER.
FT DOMAIN 287 298 POLY-GLN.
FT DOMAIN 391 478 SER/THR-RICH.
FT DOMAIN 412 422 POLY-THR.
FT DOMAIN 471 478 POLY-SER.
FT ACT_SITE 589 589 CHARGE RELAY SYSTEM (BY SIMILARITY).
FT ACT_SITE 639 639 CHARGE RELAY SYSTEM (BY SIMILARITY).
FT ACT_SITE 737 737 CHARGE RELAY SYSTEM (BY SIMILARITY).
FT DISULFID 531 659 INTERCHAIN (BY SIMILARITY).
FT DISULFID 574 590 BY SIMILARITY.
FT DISULFID 703 722 BY SIMILARITY.
FT DISULFID 733 762 BY SIMILARITY.
FT CARBOHYD 177 177 N-LINKED (GLCNAc. . .) (POTENTIAL).
FT CARBOHYD 671 671 N-LINKED (GLCNAc. . .) (POTENTIAL).
SQ SEQUENCE 786 AA; 85010 MW; CE3E755760BDEAD CRC64;

```


QY 317 LETIFTEISNLTNTG---NYNPTALSMNVESSTNMKNTASWEGREASPGSSGSGSVP 373
 Db 231 TREVSTERTSGTIVQGTTPELVETTAGVSTPEPAGSN-TSSFMTEGTASLS--PLP 287

QY 374 ENQYGLPFEX 383
 Db 288 DDTATLVLEK 297

RESULT 13
 SEPL_MOUSE STANDARD; PRT; 397 AA.

AC 062170;
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE P-selectin glycoprotein ligand 1 precursor (PSGL-1) (selectin P ligand).
 GN SEPLPG OR SEPLP OR SEPLP.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BALB/C;
 RX MEDLINE=96220265; PubMed=8639776;
 RA Yang J., Galipeau J., Kozak C., Furie B.C., Furie B.,
 RT "Mouse P-selectin glycoprotein ligand-1: molecular cloning, chromosomal localization, and expression of a functional P-selectin receptor."
 RL Blood 87:4176-4186 (1996).
 CC -1- FUNCTION: Binds to P-, E- and L-selectins. The calcium-dependent high affinity interaction with P-selectin mediates the tethering and rolling of neutrophils and T-lymphocytes on endothelial cells.
 CC -1- SUBUNIT: Homodimer; disulfide-linked (By similarity).
 CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -1- PTM: Highly O-glycosylated. Also N-glycosylated (By similarity).
 CC -1- PTM: Sulfated in the N-terminal region; sulfation is necessary for P-selectin binding (By similarity).
 CC -----
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 CC -----
 CC EMBL, X91144; CAA62583.1; --
 DR MGD; MGI:106689; Sepl1.
 KW Cell adhesion; Glycoprotein; Transmembrane; Signal; Repeat; Sulfation.

FT SIGNAL 1 17
 FT PROPEP 18 41
 FT CHAIN 42 397
 FT DOMAIN 18 307
 FT TRANSMEM 308 328
 FT DOMIN 329 397
 FT DOMIN 329 397
 FT MOD RES 54 54
 FT MOD RES 56 56
 FT CARBOHYD 66 66
 FT CAROYHD 261 261
 FT SWIMIN 126 225
 FT REPEAT 126 135
 FT REPEAT 136 145
 FT REPEAT 146 155
 FT REPEAT 156 165
 FT REPEAT 166 175
 FT REPEAT 176 185
 FT REPEAT 186 195
 FT REPEAT 196 205

BY SIMILARITY.
 P-SELECTIN GLYCOPROTEIN LIGAND 1.
 EXTRACELLULAR (POTENTIAL).
 POTENTIAL.
 CYTOPLASMIC (POTENTIAL).
 SULFATION (POTENTIAL).
 SULFATION (POTENTIAL).
 N-LINKED (GLCNAC. . .) (POTENTIAL).
 N-LINKED (GLCNAC. . .) (POTENTIAL).
 10 X 10 AA TANDEM REPEATS.

FT REPEAT 206 215 9.
 FT REPEAT 216 225 10.
 SQ SEQUENCE 397 AA; 41781 MW; 5128645FFB21E4B2 CRC64;
 Query Match 6.4%; Score 142; DB 1; Length 397;
 Best Local Similarity 25.4%; Pred. No. 0.024;
 Matches 80; Conservative 46; Mismatches 129; Indels 60; Gaps 16;

QY 117 YRIITDPSTLRNLS-----QELP-----QEDSLMGQFSQATPLAHHTDYSKPRD 165
 Db 54 YTYNTDPPELLKNVNTVAAPHELPTTVMLERDSTAGTSERAEKIA--TTDPLAP-- 109
 QY 166 ISWRDITLSQFGSSSHLEKLFMDSEASQALAYKKGSGSGSFSDDEIAHLLENVSA 225
 Db 110 -----GTGTAAGMLSTDSATQWSLTSVTQVPASREVTSPQ-APMEAFSTSP 157
 QY 226 LPATVAVASPHTTSA-TPKPATLLPTNNSV-----TPSGTSPQ---QIATTP-PTVTY 275
 Db 158 APMEAFSTSPAPMEADTSKPA---PTEAFSTSKPAPTEAFSTSPAPNMEAFSTSKPAPTEAF 214
 QY 276 SOP-PTTLISVFTTAATLQAMATTAVLTTFQAPTSKSGLETIPTEISNLTNTGNCN 334
 Db 215 SKPAPTEAFSTSPAPMEADTSKPA---PTEAFSTSKPAPTEAFSTSPAPNMEAFSTSKPAPTEAF 269
 QY 335 VYNPTALSMNVESSTNMKNTASWEGREASPGSSGSGSVPENQYGLPFEXKMLIGSL--F 392
 Db 270 -----SVTHLPDGLKK-----GLIYTPGNSPAPTPDGSDDLIPVQCLIIILIASL 317

QY 393 GYLFLVIGLVILGRT 407
 Db 318 ATIFLVCTVLAVALRL 332

RESULT 14
 DAN4_YEAST STANDARD; PRT; 1161 AA.

AC P47179;
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Cell wall protein DAN4 precursor.
 GN DAN4 OR YJR151C OR J2223.
 OS Saccharomyces cerevisiae (Baker's yeast).
 OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
 OX NCBI_TaxID=4932;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Scarcez T.;
 RL Submitted (SEP-1995) to the EMBL/Genbank/DBJ databases.
 RN [2]
 RP REGULATION.
 RX MEDLINE=21113168; PubMed=11160904;
 RA Cohen B.D., Serfil O., Abramova N.E., Davies K.J., Lowry C.V.;
 RT "Induction and repression of DAN1 and the family of anaerobic mannoprotein genes in Saccharomyces cerevisiae occurs through a complex array of regulatory sites."
 RT Nucleic Acids Res. 29:799-808 (2001).
 CC -1- FUNCTION: Component of the cell wall (By similarity).
 CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (Potential).
 CC -1- PTM: Extensively O-glycosylated (Potential).
 CC -1- SIMILARITY: Belongs to the SRP1 / TLP1 family.
 CC -----
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 CC -----
 CC EMBL, Z49651; CAA89684.1; --

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DR PIR; S57180; S57180.
DR Germonline; 141984; -.
DR SGD; S0003912; DAN4.
DR GO; GO:0009277; C:cell wall (eenu Fungl); IDA.
DR InterPro; IPR000992; SRP1_TiPl.
DR Pfam; PF00660; SRP1_TiPl; 1.
DR PROSITE; PS00724; SRP1_TiPl; 1.
DR Cell wall; Glycoprotein; Membrane; GPI-anchor; signal; Lipoprotein.
KW SIGNAL.
FT CHAIN 1 24
FT PROPEP 1147 1161
FT LIPID 1146 1146
FT SEQUENCE 1161 AA; 118358 MW; 7954C15D6F0CA58 CRC64;
SQ
Query Match 6.4%; Score 141.5; DB 1; Length 1161;
Best Local Similarity 25.8%; Pred. No. 0.1; Indels 45; Gaps 11;
Matches 60; Conservative 31; Mismatches 97;
QY 155 HHHTDYSPKPTDISMDTLISQKFGSSDHLKLT--FKMDENSAQLLA---YKEKGHSQSSQF 209
DB 57 NHHKRETPSEIA-----AAVFDYGDFTTRLTGISGDEVTRMTGVPMVSTRKPAISA 111
QY 210 SSDGEIAHLDP-----ENVSALEPATVAVASPHTTGATPKPATLLPTNASCSTPGCTS 260
DB 112 LSKDGIYAIPTSTSTTTKSSSTSTPTTITSTTSTSTSTSTSTSTSTSTSTSTSTSTSTSTST 166
QY 261 QPOLATTAPEVTTSQPTTLISVFTFRAAATLQAMATTAVALTTTFOAPTDSKGLSTI 320
DB 167 -----TSTPTTSTSTSTPTT--ST--TSTPTTSTSTSTPTTSTSTSTSTSTSTSTSTST 215
QY 321 PTEISNLTNLNTGNVNPFTALSMNSVSSIMNKTAWEGRASPGSSQSGSV 373
DB 216 PTTSTSTSTPTTST--TPT-----TSTSTSTQSTSTKSTPTTSTSTSTPT 258

RESULT 15
MSC2_YEAST STANDARD; PRT; 503 AA.
AC P53832;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Cell wall integrity and stress response component 2 precursor.
GN WSC2 OR YNL283C OR N0583.
OS Saccharomyces cerevisiae (Baker's Yeast).
OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
OC Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
OX NCBI_TaxID=4932;
RN [1]
RP SEQUENCE FROM N.A.
RA Messenguy F., Dubois E., Vlierendeels F., Scherens B., Pierard A.,
RL Submitted (MAR-1996) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: Contains 1 WSC domain.
CC -----
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CC or send an email to license@sib-sib.ch).
CC -----
CC EMBL; 271559; CAA96195.1; -.
DR PIR; S63257; S63257.
DR Germonline; 143289; -.
DR SGD; S0005227; WSC2.
DR GO; GO:0005737; C:cytoplasm; IDA.
DR GO; GO:0004888; F:transmembrane receptor activity; IGI.
DR GO; GO:0007047; P:cell wall organization and biogenesis; IGI.
DR GO; GO:0009408; P:response to heat; IGI.
DR GO; GO:0007266; P:rho protein signal transduction; IGI.

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DR InterPro; IPR002889; WSC.
DR Pfam; PF01822; WSC; 1.
DR SMART; SM00321; WSC; 1.
KW Cell wall; Transmembrane; Glycoprotein; signal.
FT SIGNAL 1 23
FT CHAIN 24 503
FT TRANSMEM 326 346
FT DOMAIN 121 319
FT CARBOHYD 394 394
FT CARBOHYD 429 429
FT CARBOHYD 475 475
FT CARBOHYD 483 483
FT CARBOHYD 498 498
FT CARBOHYD 499 499
FT SEQUENCE 503 AA; 52292 MW; F2392A73C5CBAB50 CRC64;
SQ
Query Match 6.2%; Score 136; DB 1; Length 503;
Best Local Similarity 27.2%; Pred. No. 0.082;
Matches 55; Conservative 35; Mismatches 110; Indels 2; Gaps 2;
QY 204 SSSQFSSDGEIAHLDPENVALPATVAVASPHTTGATPKPA-TLLPTNASCSTPGTSQP 262
DB 137 SSSSTSVSSKSTKLDIKTSSSSATSSSSSTSTSTSSSETTSSSSSSSSSTST 196
QY 263 QLATTAPEVTTSQPTTLISVFTFRAAATLQAMATTAVALTTTFOAPTDSKGLSTI 322
DB 197 STSTSTSTSTSSPSSTSTSSSTSSSTSSSTSSSTSSSTSSSTSSSTSSSTSSSTSS 255
QY 323 TEISNLTNLNTGNVNPFTALSMNSVSSIMNKTAWEGRASPGSSQSGSVENYGLPFE 382
DB 256 TSIQSTHYTTRVYVTSQVSAQAOASTIFTRTSVYAVVSSTSSSTSSSLNKGSSSKS 315
QY 383 KMLIGSLFGLVFLVGLVLL 404
DB 316 KGLSGAIGAVGVGCTVAL 337

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Search completed: April 28, 2004, 12:58:20
Job time : 20 secs


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QY 121 TDFPSLITRNLPQSELPOEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Db 121 TDFPSLITRNLPQSELPOEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
QY 181 HLEKLFKMDKASAOQLAYKEKGHSOSSQSSDOEIAHLHPENVSAALPATVAASPHTTSA 240
Db 181 HLEKLFKMDKASAOQLAYKEKGHSOSSQSSDOEIAHLHPENVSAALPATVAASPHTTSA 240
QY 241 TPKPATLLPTNASVTPSGTSPQOLATTAPVTTVTSOPPTLLISTVFTRAAATLQAMATT 300
Db 241 TPKPATLLPTNASVTPSGTSPQOLATTAPVTTVTSOPPTLLISTVFTRAAATLQAMATT 300
QY 301 AVLTTPQAPTDKSGSLETTIPFTEISNLTNTGAVNVPALSMNSVSSSTNKTASWEGR 360
Db 301 AVLTTPQAPTDKSGSLETTIPFTEISNLTNTGAVNVPALSMNSVSSSTNKTASWEGR 360
QY 361 EASPGSSSGSVPENQYGLPPEKMLIGSLLFGVLFLVIGLGRILISESLRRKRY SRL 420
Db 361 EASPGSSSGSVPENQYGLPPEKMLIGSLLFGVLFLVIGLGRILISESLRRKRY SRL 420
QY 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

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RESULT 2

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QY Q9NEC1 PRELIMINARY; PRT; 431 AA.
AC Q9NEC1;
DT 01-OCT-2002 (TREMBlrel. 22, Created)
DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Hypothetical protein FLJ10298.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Struhsberg R.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC032998; AAH32998.1; -.
KW Hypothetical protein.
SQ SEQUENCE 431 AA; 46824 MW; 1BCEBD168AC939D CRC64;

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Query Match 100.0%; Score 2210; DB 4; Length 431;
 Best Local Similarity 99.8%; Pred. No. 9, 7e-159;
 Matches 430; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MFFGEGSLTYTLVLIICFLTRLASQNCCLKSLIEDVVIDIOSLSKGRGNEPYTSTQ 60
Db 1 MFFGEGSLTYTLVLIICFLTRLASQNCCLKSLIEDVVIDIOSLSKGRGNEPYTSTQ 60
QY 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQPNCYLFFCPNEBACPLKPAKGLMSYRII 120
Db 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQPNCYLFFCPNEBACPLKPAKGLMSYRII 120
QY 121 TDFPSLITRNLPQSELPOEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Db 121 TDFPSLITRNLPQSELPOEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
QY 181 HLEKLFKMDKASAOQLAYKEKGHSOSSQSSDOEIAHLHPENVSAALPATVAASPHTTSA 240
Db 181 HLEKLFKMDKASAOQLAYKEKGHSOSSQSSDOEIAHLHPENVSAALPATVAASPHTTSA 240
QY 241 TPKPATLLPTNASVTPSGTSPQOLATTAPVTTVTSOPPTLLISTVFTRAAATLQAMATT 300
Db 241 TPKPATLLPTNASVTPSGTSPQOLATTAPVTTVTSOPPTLLISTVFTRAAATLQAMATT 300
QY 301 AVLTTPQAPTDKSGSLETTIPFTEISNLTNTGAVNVPALSMNSVSSSTNKTASWEGR 360
Db 301 AVLTTPQAPTDKSGSLETTIPFTEISNLTNTGAVNVPALSMNSVSSSTNKTASWEGR 360

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Db 301 AVLTTPQAPTDKSGSLETTIPFTEISNLTNTGAVNVPALSMNSVSSSTNKTASWEGR 360
QY 361 EASPGSSSGSVPENQYGLPPEKMLIGSLLFGVLFLVIGLGRILISESLRRKRY SRL 420
Db 361 EASPGSSSGSVPENQYGLPPEKMLIGSLLFGVLFLVIGLGRILISESLRRKRY SRL 420
QY 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

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RESULT 3

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QY Q9SKG7 PRELIMINARY; PRT; 431 AA.
AC Q9SKG7;
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DE Hypothetical protein.
OS Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
OC Cercopithecoidea; Macaca.
OX NCBI_TaxID=9541;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Temporal cortex;
RA Osada N., Hida M., Kusuda J., Tanuma R., Ieeki K., Hirai M., Terao K.,
RA Suzuki Y., Sugano S., Hashimoto K.;
RL "Isolation of full-length cDNA clones from macaque brain cDNA
  libraries."
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB060888; BAB46892.1; -.
KW Hypothetical protein.
SQ SEQUENCE 431 AA; 47104 MW; BF10996E87F76C69 CRC64;

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Query Match 92.2%; Score 2039; DB 6; Length 431;
 Best Local Similarity 92.3%; Pred. No. 8, 1e-146;
 Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;

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QY 1 MFFGEGSLTYTLVLIICFLTRLASQNCCLKSLIEDVVIDIOSLSKGRGNEPYTSTQ 60
Db 1 MFFGEGSLTYTLVLIICFLTRLASQNCCLKSLIEDVVIDIOSLSKGRGNEPYTSTQ 60
QY 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQPNCYLFFCPNEBACPLKPAKGLMSYRII 120
Db 61 EDCINSCCSTKNISGDKACNLMIFDTRKTARQPNCYLFFCPNEBACPLKPAKGLMSYRII 120
QY 121 TDFPSLITRNLPQSELPOEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
Db 121 TDFPSLITRNLPQSELPOEDSLHGFQSOAVTPLAHHTDYSKPTDISWRDTLSQKFGSSD 180
QY 181 HLEKLFKMDKASAOQLAYKEKGHSOSSQSSDOEIAHLHPENVSAALPATVAASPHTTSA 240
Db 181 HLEKLFKMDKASAOQLAYKEKGHSOSSQSSDOEIAHLHPENVSAALPATVAASPHTTSA 240
QY 241 TPKPATLLPTNASVTPSGTSPQOLATTAPVTTVTSOPPTLLISTVFTRAAATLQAMATT 300
Db 241 TPKPATLLPTNASVTPSGTSPQOLATTAPVTTVTSOPPTLLISTVFTRAAATLQAMATT 300
QY 301 AVLTTPQAPTDKSGSLETTIPFTEISNLTNTGAVNVPALSMNSVSSSTNKTASWEGR 360
Db 301 AVLTTPQAPTDKSGSLETTIPFTEISNLTNTGAVNVPALSMNSVSSSTNKTASWEGR 360
QY 361 EASPGSSSGSVPENQYGLPPEKMLIGSLLFGVLFLVIGLGRILISESLRRKRY SRL 420
Db 361 EASPGSSSGSVPENQYGLPPEKMLIGSLLFGVLFLVIGLGRILISESLRRKRY SRL 420
QY 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

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RESULT 4
Q9NM60 PRELIMINARY: PRT; 397 AA.
AC Q9NM60:
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Hypothetical protein FLJ10298.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Isegai T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y.,
RA Nishikawa T., Nagai K., Sugano S., Shiratori A., Sudo H.,
RA Wagasuma M., Hosoi T., Kaku Y., Kodaira H., Kondo H., Sugawara M.,
RA Takahashi M., Chiba Y., Ishida S., Murakawa K., Ono Y., Takiguchi S.,
RA Watanabe S., Kimura K., Murakami K., Ishii S., Kawai Y., Saito K.,
RA Yamamoto J., Wakamatsu A., Nakamura Y., Nagahara K., Masuno Y.,
RA Nimomiya K., Iwayanagi T.;
RT "NEO human cDNA sequencing project.";
RL Submitted (FEB-2000) to the EMBL/Genbank/DBJ databases.
DR EMBL; AK001160; BAA91526.1;
KW Hypothetical protein.
SQ SEQUENCE 397 AA; 43062 MW; E2FEFF2E61122C62 CRC64;

Query Match 91.5%; Score 2022; DB 4; Length 397;
Best Local Similarity 92.1%; Pred. No. 1.4e-144;
Matches 397; Conservative 0; Mismatches 0; Indels 34; Gaps 1;

QY 1 MFPGEGSLTYTLVLTICFLTLRLSASQNLKSLSDVVIDIQSSLSKIGRNEPYTSTQ 60
DB 1 MFPGEGSLTYTL-----GIRGNEPYTSTQ 26

QY 61 EDCINSCSTKNISGDKACNLMIPDRTKAROPNCYLFPCPNEACPLKPAKGLMSYRII 120
DB 27 EDCINSCSTKNISGDKACNLMIPDRTKAROPNCYLFPCPNEACPLKPAKGLMSYRII 86

QY 121 TDFPSLTNLPSQELPOEDSLHGFQSOAVPTPLAHHHTDYSKPTDISWRDLSQKFGSSD 180
DB 87 TDFPSLTNLPSQELPOEDSLHGFQSOAVPTPLAHHHTDYSKPTDISWRDLSQKFGSSD 146

QY 181 HLEKLFKMDKDEASQALLAYKEKGHSOSQSSPOEIAHLHPENVSAALPATVAASHTTSA 240
DB 147 HLEKLFKMDKDEASQALLAYKEKGHSOSQSSPOEIAHLHPENVSAALPATVAASHTTSA 206

QY 241 TPKPATLLPTNASVTPSGTSPQOLATTAAPVTTVTSOPPTLLISTVFTRAAATLOAMATT 300
DB 207 TPKPATLLPTNASVTPSGTSPQOLATTAAPVTTVTSOPPTLLISTVFTRAAATLOAMATT 266

QY 301 AVLTTTFOAPDPSKSLFTIPTTEISNLTNTGNVYNPTALSMNSVESSTMNKTASWEGR 360
DB 267 AVLTTTFOAPDPSKSLFTIPTTEISNLTNTGNVYNPTALSMNSVESSTMNKTASWEGR 326

QY 361 EASPGSSQSGVPEKQYGLPFEKMLIGSLFGVLFVYGLVLLRILISESLRRKRSYRL 420
DB 327 EASPGSSQSGVPEKQYGLPFEKMLIGSLFGVLFVYGLVLLRILISESLRRKRSYRL 386

QY 421 DYLINGIYVDI 431
DB 387 DYLINGIYVDI 397

RESULT 5
Q80V71 PRELIMINARY: PRT; 414 AA.
AC Q80V71:
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE 9130403P13R1K protein.
OS Mus musculus (Mouse).
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OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=FVB/N; TISSUE=Breast tumor;
RX MEDLINE=22388257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Maruina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullany S.J.,
RA Bock S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Hellon E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood U., Schmutz J., Myers R.M., Butlerfield Y.S.,
RA Krzywinski M.I., Skalska U., Smalish D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP SEQUENCE FROM N.A.
RA STRAIN=FVB/N; TISSUE=Breast tumor;
RX Strausberg R.;
RL Submitted (NOV-2002) to the EMBL/Genbank/DBJ databases.
DR EMBL; BC039930; AAH39930.1;
KW "Generation and initial analysis of more than 15,000 full-length human
SQ SEQUENCE 414 AA; 44531 MW; 84AFB759D1B22755 CRC64;
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Query Match 53.3%; Score 1179.5; DB 11; Length 414;
Best Local Similarity 60.3%; Pred. No. 6.5e-81;
Matches 260; Conservative 36; Mismatches 118; Indels 17; Gaps 6;

QY 1 MFPGEGSLTYTLVLTICFLTLRLSASQNLKSLSDVVIDIQSSLSKIGRNEPYTSTQ 60
DB 1 MLFPGT-SLAVALVVISFLTPRSSAGQNLTKSLSDVVIDIQSSLSKIGRNEPYHVAHQ 59

QY 61 EDCINSCSTKNISGDKACNLMIPDRTKAROPNCYLFPCPNEACPLKPAKGLMSYRII 120
DB 60 EDCVAGCCSTVDIADKACNLMIPDRTKAROPNCYLFPCPNEACPLKPAKGLVYRII 119

QY 121 TDFPSLTNLPSQELPOEDSLHGFQSOAVPTPLAHHHTDYSKPTDISWRDLSQKFGSSD 180
DB 120 RDFPLTSANSSLOQTQESILLDHSPGATPFPRTAGYRKPGTSLSDSGSLKSTAPL 179

QY 181 HLEKLFKMDKDEASQALLAYKEKGHSOSQSSPOEIAHLHPENVSAALPATVAASHTTSA 240
DB 180 HLEKRIKADSTQTL--PEEKSHSQSLQPLSELKMAHLHPKTVPTPTVAAPLRANSA 237

QY 241 TPKPATLLPTNASVTPSGTSPQOLATTAAPVTTVTSOPPTLLISTVFTRAAATLOAMATT 300
DB 238 TLKPALLL-TSISVAKTKQKE-ATLASPVTVYTSKPAVPGSTSTP-----DVTHQ 289

QY 301 AVLTTTFOAPDPSKSLFTIPTTEISNLTNTGNVYNPTALSMNSVESSTMNKTASWEGR 360
DB 290 AALTTTFOAHTDSKGLIETMFPQGSSTLT-----SDRHKKSSTSESSINNTKTASWEDR 343

QY 361 EASPGSSQSGVPEKQYGLPFEKMLIGSLFGVLFVYGLVLLRILISESLRRKRSYRL 420
DB 344 RVSVGSASLNGKPGSOHGLSFEKMLIGTLLCGVLFVYGLVLLGRMLVEALRRKRSYRL 403

QY 421 DYLINGIYVDI 431
DB 404 DYLINGIYVDI 414

RESULT 6
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Q9CR33 PRELIMINARY; PRT; 414 AA.
 ID Q9CR33;
 AC Q9CR33;
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE 9130403P1R1K protein (weakly similar to NTRM100115 protein).
 GN 9130403P1R1K.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Cecum;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi U., Fukuda S.,
 Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana I.,
 Saito T., Okazaki Y., Gojobori T., Bono H., Kahekawa T., Saito R.,
 Kadota K., Matsuda H.A., Ashburner M., Batalov S., Cavaletto T.,
 Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
 Kuehl P., Lewis S., Matsumoto Y., Niki K., Pesole G., Quackenbush J.,
 Schriml L.M., Straub J., Suzuki R., Tomita M., Wagner L., Washio T.,
 Sakai K., Okido T., Furuno M., Kono H., Baldarelli R., Barsh G.,
 Blake J., Botelli D., Boujra N., Carninci P., de Bonaldo M.F.,
 Brownstein M.J., Bull C., Fletcher C., Fujita M., Gariboldi M.,
 Guelinich S., Hill D., Hofmann M., Hume D.B., Kamaya M., Lee N.H.,
 Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombere P.,
 Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
 Suzuki H., Toyokawa K., Wang K.H., Welter C., Whitaker C., Wilming L.,
 Wyszynski-Boris A., Yoshida K., Hasegawa Y., Kawai J., Kohlschki S.,
 Hayashizaki Y.;
 RA "Functional annotation of a full-length mouse cDNA collection."
 RL Nature 409:685-690(2001).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Colon, and Medulla oblongata;
 RX MEDLINE=22354683; PubMed=12466851;
 RA THE FANTOM Consortium,
 RA the RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs."
 RL Nature 420:563-573(2002).
 DR EMBL; AK018660; BAB31329.1; -
 DR EMBL; AK018635; BAB31319.1; -
 DR EMBL; AK033526; BAC28341.1; -
 DR EMBL; AK033557; BAC28357.1; -
 DR EMBL; AK046837; BAC32892.1; -
 DR MGI; MGI:1914979; 9130403P1R1K.
 SQ SEQUENCE 414 AA; 44832 MW; 29BB9197C916BA8E CRC64;
 Query Match 52.7%; Score 1164.5; DB 11; Length 414;
 Best Local Similarity 59.9%; Pred. No. 8.9e-80;
 Matches 258; Conservative 37; Mismatches 119; Indels 17; Gaps 6;
 QY 1 MFFGEGSLTYTLVLCFTLRLSASONCLKSLKEDVYDIQSSLSKGRNEPVYTQ 60
 DB 1 MLFRCST-SLAVSLVLSFLTRPSSAGONCLTSLDVIDDIQSSLSKGRNEPVHATQ 59
 QY 61 EDCINSCSTKNISGDKACNLMIFTRKTAQPNCYLFFCPNEEACPLKPAKGLMSYRI 120
 DB 60 EDCIACCCSTKDIADKACNLMIFTRKTDROPNCYLFPCPEDACPLKPAKGLVYRLI 119
 QY 121 TDFPRLTNLPSQELPQSDSLHGFQSAVPLAHNHDYKPTDISKRDLSQKFGSSD 180
 DB 120 RDPFLTSANSSIQQLTGSEFLLDHSSPCATPGFTTPAGYPTGLSDSDSLKSTAPL 179
 QY 181 HLEKLFKNDKDEASQQLAVYKEKSHSQSSQFSSDPOEFAHLPEKVASLPTVAASPTTSA 240
 DB 180 HLRKRIKADKDSMQJ--PEEKSHSQSLQPLSELKPAHLPLKTVPTTVAVALRANVA 237

QY 241 TPKPATLPTNASTPSPSTSQPOLATTAPPTVYTSQPEPTLITVFTRAATTQAMATT 300
 DB 238 TLKPELLT-TSISVYAKTLKQKE-ATTASPVTVTSKLPVGVSGTSFT-----PVYHQ 289
 QY 301 AVLTTPAPRDSQSLTETIPFTEISNLTNTGAVNPPTALSMNSVESTNNKTASMEGR 360
 DB 290 AALNTTFOAHTDSKGLTETMPFGGSLT-----SDPRHKSSTESSITNNKTASMEGR 343
 QY 361 EASPGSSQSGVPENQGLPFEKMLIGSLFGVLFTVIGLVLLGRILSELRKRYRSL 420
 DB 344 RVSGSASLNGKPSQSGHLSFEKMLIGTLLCGVLFTVIGLVLLGRMLVEALRRKRYRSL 403
 QY 421 DYLLNGIYVDI 431
 DB 404 DYLLNGIYVDI 414
 RESULT 7
 ID Q8K010 PRELIMINARY; PRT; 194 AA.
 AC Q8K010;
 DT 01-OCT-2002 (TREMBlrel. 22, Created)
 DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
 DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
 DE Similar to hypothetical protein FLJ10298 (Fragment).
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Liver;
 RA Strausberg R.;
 RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC031372; AAH1372.1; -
 KW Hypothetical protein.
 FT NON TER 1
 SQ SEQUENCE 194 AA; 20701 MW; 11C1F299E1FB3C44 CRC64;
 Query Match 22.7%; Score 503; DB 11; Length 194;
 Best Local Similarity 59.5%; Pred. No. 3.1e-30;
 Matches 122; Conservative 13; Mismatches 56; Indels 14; Gaps 4;
 QY 227 PATVAVASPHTSATPKPATLPTNASTVPSGTSQPOLATTAPPTVYTSQPEPTLITV 286
 DB 4 PTVVAVALRVASATLKPALL-TSISVYAKTLKQKE-ATTASPVTVTSKLPVGVSGTS 61
 QY 287 FTAAATATQAMATTAVLTTPQAPTDSKGLTETIPFTEISNLTNTGAVNPPTALSMNSV 346
 DB 62 FT-----PVYTHQAMLTNTFOAHTDSKGLTETMPFGGSLT-----SDPRHKSSTS 109
 QY 347 ESSTNKTKASMEGRASPGSSQSGVPENQGLPFEKMLIGSLFGVLFTVIGLVLLGR 406
 DB 110 ESSITNNKTASMEGRVSGSASLNGKPSQSGHLSFEKMLIGTLLCGVLFTVIGLVLLGR 169
 QY 407 ILSESLRKRYSRLDYLLNGIYVDI 431
 DB 170 MLVEALRRKRYRSLDYLLNGIYVDI 194
 RESULT 8
 ID Q8VCP2 PRELIMINARY; PRT; 392 AA.
 AC Q8VCP2;
 DT 01-MAR-2002 (TREMBlrel. 20, Created)
 DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
 DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
 DE RIKEN CDNA 1810055G02 gene.
 GN 1810055G02R1K.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;

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RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Liver;
RA Strubeberg R.;
RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC019471; AAH19471.1; -
MDG; MGI:1919306; 1810055G02Rik.
SQ SEQUENCE 392 AA; 41081 MW; 1D79796C791211FA CRC64;

Query Match
Best Local Similarity 26.5%; Score 197.5; DB 11; Length 392;
Matches 89; Conservative 37; Mismatches 115; Indels 95; Gaps 14;

QY 156 HTDVSXKPIIDISWBDTISQKFGSSDHLKLFKMDASAGLLAYKEKGHSQSOF----- 209
DB 88 HGTNSTSTP-----TREGTDRV-----TSRTLAAPTSSGSPSAEQTRPTTA 130
QY 210 ----SSDOEIAHLLENVNSALPAT--VAVASPHTT-----SATPKPATLLPTN 251
DB 131 GLPSLSTPHAEVPRTVASVSPRTAMAATVAPHATLTAAGVTNSDPHTPTSPAKSTPTD 190
QY 252 -ASVTPSGISQPOLATTAPVTT-----VTSQPTTLISTVFTRAAT 293
DB 191 TSSKXPIPTSGAQIOCTTQVLTDPVHSTAGRSALSPENATLEPTTQVOTK-EPSAST 249
QY 294 LQAMATTAVALTTFOAPRTDSKSLERIPTEISNLNTNGVNPALMSMNVESSTMK 353
DB 250 VPARATISLSPDVVISPTTQPS--PTLP-----TQGTGG--PGTLTTEQVGTXTTSG 298
QY 354 TASWEGREASPGSSSGSV-----PENQGLPPE-----KMLLIGSLFGV 394
DB 299 TSS-----AGPISRSSGDIKVPPTDSCPSQCGVLTITDALPLVNMMLLVLLVGV 353
QY 395 LFLVIGLVILGRILSRLKRYSLDYINGIYVD 430
DB 354 TLFIAVLVFPALQAYESYKKDYQVDYLINGMYAD 389

RESULT 9
Q9H2K4 PRELIMINARY; PRT; 449 AA.
ID Q9H2K4;
AC Q9H2K4;
DT 01-MAR-2001 (TREMBlrel. 16, Created)
DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DE DM4E3.
GN C10RF24.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
OC NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21295044; PubMed=11401438;
RA Tweils R.C.J., Metzker M.L., Brown S.D., Cox R., Garey C., Hammond H.,
RA Hey P.J., Levy E., Nakagawa Y., Phillips M.S., Todd J.A., Hess J.F.,
RA "The Sequence and Gene Characterization of a 400-kb Candidate Region
RA for IDDD4 on Chromosome 11q13."
RL Genomics 72:231-242(2001).
DR EMBL; AF264781; AAG36936.1; -
DR InterPro; IPR001395; Aldc/ket red.
DR PROSITE; PS00063; ALDOXERO_REDUTASE_3; 1
SQ SEQUENCE 449 AA; 46100 MW; 11C8B0FC3BBP921 CRC64;

Query Match
Best Local Similarity 22.2%; Score 197; DB 4; Length 449;
Matches 117; Conservative 49; Mismatches 166; Indels 196; Gaps 18;

QY 13 LVITICLITRLASQNCCLKSLSDVYIDIQSSLSKIRGNEPYTSTQEDCINSCSTON 72
DB 5 LVILWIFSLSTSSHAASNDPRNFVNKKWKGLVKYNASVETVNTKSTSDVYMAAAS--- 61
QY 73 ISGDKACNIMIFTRKTAQPNCYLFCFNEACPLKPAKGLMSYRIIIDPSELTNLPS 132

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DB 62 -----PVTLTKG-----TSAHLNS 76
QY 133 QELPOEDSLHGOFSQAVTPLAHHRTDYSKPIIDISWBDTISQKFGSSDHLKLFKMDAS 192
DB 77 MEVTEEDT-----SRTDVSEP-----ATSGGAADGVTSIAPTAVAS 112
QY 199 AQLLAYKEKGHSQSOFSSDOEIAHLLENVNSALPATVAVASPHT-----TSATPKPATL 247
DB 113 STTA-----SITTAASMTVASSAP--TTAASSTTASTIPTTAASMTAASSTPML 164
QY 248 ---LPTNNAV--TPS--GTSPQOLATTAPVTTVTSQPTTLISTVFTRAAATLQAMAT 300
DB 165 ALPAPTSTSTGTPTSTTATGHSLSLTAQAQVKSALPRTATLATLATRA-----QTAVT 220
QY 301 A-----VLTTQAPDSKG 315
DB 221 ANTSSPMSTRPSPSKMPSDITASVPPWRPOAGPISQVSDQPVVNTNTKSTPMSPNT 280
QY 316 SLETIPTFEISNLNTNGVNPAL-----SMS-NVESSTMKKTASWEG- 359
DB 281 TPEAPPTV--VTTKAQAREPTLASVVPVPTSPPEMEASPTTQSPMPTQRAAP 338
QY 360 -----REASPGSSSGSVPENQYG--LP-----FE 382
DB 339 GTSQAPQEVETATATGTSTGTPTPRSSGCTKMPATDSCPSQCGVMTTEPLQAVVD 398
QY 383 KMLLIGSLFGVLFVIGLVILGRILSRLKRYSLDYINGIYVD 430
DB 399 KTLILVLLIGVLTPLTVLVPALQAYESYKKDYQVDYLINGMYAD 446

RESULT 10
Q9DBN1 PRELIMINARY; PRT; 392 AA.
ID Q9DBN1;
AC Q9DBN1;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
DE 1810055G02Rik protein.
GN 1810055G02Rik.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OC NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=C57BL/6J; TISSUE=Pancreas;
RX MEDLINE=21085660; PubMed=11217851;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Aikawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batálov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiya H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaide I., Pesole G., Quackenbush J.,
RA Schriml L.W., Stabili F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baladevall R., Barsh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
RA Hayashizaki Y.;
RL "Functional annotation of a full-length mouse cDNA collection."
DR EMBL; AK007868; BAB25319.1; -
DR MGD; MGI:1919306; 1810055G02Rik.
SQ SEQUENCE 392 AA; 41095 MW; 6BBA958C73489874 CRC64;

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